PRODUCT CATALOG 2023

Rugged Mobile and Panel PC Solutions

Your Smart Computing Partner

www.aaeon.com
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<td>RTC-710AP</td>
<td>7” Rugged Tablet Features Intel® N3350 / N4200 Processor with Windows® 10</td>
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<td>RTC-1010</td>
<td>10.1” Rugged Tablet Features with Intel® N3350/N4200 Processor with Windows® 10</td>
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<td>RTC-1010M</td>
<td>10.1” Semi-rugged Tablet Features With Intel® N3350 / N4200 Processor With Windows® 10</td>
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<td>RTC-1200</td>
<td>11.6” Rugged Tablet Features Intel® Kaby Lake Up To 3.9 GHz Dual Core Processor with Windows® 10</td>
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<td>10.1” Rugged Tablet Features Rockchip RK3399 With Android 10.0</td>
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<td>RTC-1010-SB-000</td>
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<td>VESA Mount Plate for RTC-1010M</td>
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<td>1255900363</td>
<td>DC-To-DC Power Adapter, Flying Wires for RTC-1010/RTC-1010M</td>
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<td>DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/RTC-1010M</td>
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<td>RTC-1200HSP01-000</td>
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## RISC Boards

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<td>Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor</td>
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<td>RICO-3288MINI</td>
<td>Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor</td>
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<td>RICO-3399</td>
<td>Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor</td>
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<td>RICO-3568</td>
<td>Pico-ITX Fanless Board with Rockchip ARM Cortex™-A55 Quad-core Processor</td>
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<tr>
<td>ACP-1106</td>
<td>10.1&quot; WXGA Multi-Touch Panel PC With Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM</td>
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<tr>
<td>ACP-1104</td>
<td>10.1&quot; WXGA Ultra-slim Fanless Multi Touch Panel PC w/ Intel® Celeron® J1900/ N2807 Processor, 2GB RAM</td>
<td>04-5</td>
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<tr>
<td>ACP-1076</td>
<td>7&quot; SWXGA Multi-Touch Panel PC with Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM</td>
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<td>ACP-1074</td>
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<td>ACP-1105</td>
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### OMNI Series

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## 05 OMNI Series: Modular Builder

### Panel Kit

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<td>OMNI-310D</td>
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<td>OMNI-315D</td>
<td>15&quot; OMNI Modular Touch/ LCD Panel Kit</td>
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<td>OMNI-317D</td>
<td>17&quot; OMNI Modular Touch/ LCD Panel Kit</td>
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### BOX Kit

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<tr>
<td>OMNI-3155-BT</td>
<td>15&quot; Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor</td>
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<tr>
<td>OMNI-3195-BT</td>
<td>19&quot; Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor</td>
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<tr>
<td>OMNI-2155-SKU</td>
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<td>OMNI-2215-SKU</td>
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<td>OMNI-3125-SKU</td>
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<td>OMNI-3175-SKU</td>
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<td>OMNI-3195-SKU</td>
<td>19&quot; Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor</td>
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## OMNI Series: Modular Display Solutions

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<td>OMNI-221M</td>
<td>21.5&quot; Touch Display Monitor, DC 12–30V</td>
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<tr>
<td>OMNI-310M</td>
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<td>OMNI-312M</td>
<td>12.1&quot; Touch Display Monitor, DC 12–30V</td>
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<td>OMNI-315M</td>
<td>15&quot; Touch Display Monitor, DC 12–30V</td>
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<td>OMNI-317M</td>
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About AAEON

A Leader and Partner in Embedded Computing Platforms

We have a relentless drive for excellence and passion for unsurpassed service.

Established in 1992, AAEON is one of the leading designers and manufacturers of professional intelligent IoT solutions and advanced industrial computing platforms today. Committed to innovative engineering, AAEON provides integrated solutions including industrial motherboards and systems, industrial displays, rugged tablets, embedded controllers, network appliances and related accessories. We also work with premier OEM/ODMs and system integrators around the world. Offering x86-based platforms from Intel® Atom™ all the way to Intel® Xeon processors, and in desktop, 1U and 2U form factors, AAEON’s team of experienced engineers has helped dozens of companies around the globe deploy reliable appliances with faster times to market and lower development costs based on state-of-the-art hardware platforms, unmatched service quality and long-term support.

As an Associate Member of the Intel® Internet of Things Solutions Alliance, AAEON offers customized end-to-end services from initial product conceptualization and board product development to mass manufacturing and after-sales service programs.

At AAEON, we take the environment seriously, and all of our products are compliant with RoHS regulations. We are dedicated to the sustainability of the Earth, and all of our products conform to applicable laws and regulations.

AAEON Core Values

Reliability:
Delivering dependable products in a timely manner

Integrity:
Valuing business integrity and ethics

Innovation:
Turning cutting-edge concepts into reality
About AAEON

AAEON is committed to delivering high-quality intelligent system products, such as Rugged Panel PCs, Expandable Industrial Computers, Full HD Infotainment Displays, Rugged Tablets, Embedded PCs and related accessories, for use in all aspects of sectors including Digital Signage, Transportation, Industrial Automation, Healthcare, Hospitality, Harbor/Marine, Military/Government, Public Safety and Energy.

AAEON has the capability to customize services for a range of embedded computers and system products according to customer requirements and specifications. To help large customers with volume production, AAEON also provides an end-to-end Design Manufacturing Service (DMS) that begins with design and goes through to contract manufacturing. Quality assurance of our system products ensures excellent product performance and is the key to our success and growing global customer base.

System Level Products

Board Level Products

Embedded boards are the beating heart of every computer system. AAEON offers a diverse range of different embedded boards to consolidate your systems. Our products include Compact Boards, 3.5” Sub-Compact Boards, EPIC boards, PICO-ITX boards, COM Express Modules, PC/104 Modules, PC/104 Peripheral Modules, IoT Node/Gateway Boards, and full-sized & half-sized SBCs.

With the advent of the fourth industrial revolution, more commonly known as Industry 4.0, the optimization of automation processes and productivity is becoming more relevant than ever before. Embedded single boards provide an easily configurable and efficient solution to consolidating industrial platforms and infrastructure in fields such as smart cities, smart building management, smart transportation, energy-efficient grids, POS and digital signage, and the medical industry.

AAEON’s boards are designed for superior environmental resilience. The WiTAS (Wide Temperature Assurance Services) line can be used within a temperature range of -40°C~85°C and is specifically built to combat harsh environments, operating at peak efficiency in both bitterly cold and blisteringly hot spaces. Our WiTAS products are also ideal for IoT uses and are designed for minimum maintenance and maximum ruggedness.

Note: All specifications are subject to change without notice.
Milestones

- AAEON awarded 2021 System Integration Outbound Award
- AAEON awarded 2021 COMPUTEX d&i Awards
- AAEON awarded the 30th Taiwan Symbol of Excellence Award
- AAEON awarded the 26th National Quality Award

2021

- AAEON awarded two 2019 COMPUTEX d&i Awards
- AAEON awarded the 28th Taiwan Symbol of Excellence Award

2020

- AAEON awarded the 29th Taiwan Symbol of Excellence Award

2019

- AAEON awarded 2018 Vision Systems Design Award
- AAEON awarded three 2018 COMPUTEX d&i Awards
- AAEON awarded the 27th Taiwan Symbol of Excellence Award

2018

- AAEON awarded the 25th Taiwan Symbol of Excellence Award
- AAEON awarded a 2016 ICT Month Innovative Elite Top 100 Award
- AAEON awarded the 2016 Excellence in Corporate Social Responsibility Award
- AAEON awarded a 2016 outstanding Enterprises of the Year Golden Peak Award
- AAEON awarded the Transcend Most Valued Partner Award

2017

- AAEON awarded the 22nd Taiwan Symbol of Excellence Award
- AAEON awarded the Intel® IoT Solutions Alliance Member Performance Award

2016

- AAEON awarded the Computex Taipei 2013 Best Choice of the Year Award
- AAEON awarded the Microsoft Silver Partner Award

2015

- AAEON awarded the 17th Taiwan Symbol of Excellence Award
- AAEON awarded the 17th MOEA’s Joint Award

2014

- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON awarded the Microsoft Partner of Year 2015 Award
- AAEON awarded the Outstanding Business Achievement Award

2013

- AAEON awarded the Taiwan Superior Brand Award
- AAEON awarded the 18th Taiwan Symbol of Excellence Award
- AAEON awarded the 18th MOEA’s Joint Award

2012

- AAEON awarded the Computex Taipei 2012 Best Choice of the Year Award
- AAEON awarded the Microsoft Silver Partner Award

2011

- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON awarded the Intel® Greatest Co-Selling Growth Award of Excellence
- AAEON received ISO 13485 medical certification
- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award

2010

- AAEON awarded the 19th Taiwan Symbol of Excellence Award
- AAEON awarded the Siemens Star Supplier 2011 Award
- AAEON awarded the Computex Taipei 2011 Best Choice of the Year Award
- AAEON joined ASUSTek Computer Inc. (ASUS)

2009

- AAEON awarded the Computex Taipei 2010 Best Choice of the Year Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

2008

- AAEON awarded the 20th Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft® Windows® Embedded Partner of Year 2012
- AAEON awarded the Best Customer Award

2007

- AAEON awarded the 17th Taiwan Symbol of Excellence Award
- AAEON awarded the 17th MOEA’s Joint Award
- AAEON awarded the Outstanding Business Achievement Award

2006

- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON received ISO 13485 medical certification
- AAEON awarded the 15th Taiwan Symbol of Excellence Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award

2005

- AAEON awarded the Computex Taipei 2005 Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

2004

- AAEON became an Associate Member of the Intel® Embedded Alliance

2003

- AAEON Technology Inc. was established in Su Zhou, China
- AAEON became a publicly traded company on the Taiwan Stock Exchange
- AAEON set up a European office in Limburg, Germany
- AAEON was listed as an OTC (Over The Counter) stock company
- The AAEON Foundation was established to promote humanitarian work and technological education
- AAEON-USA, the premier off-shore branch office was established in New Jersey

2002

- AAEON Technology (Su Zhou) factory received 3C and ISO-9001 certification
- AAEON set up a Singapore office

2001

- AAEON received TL9000-H certification
- AAEON became a member of the Intel® ACPP Program

2000

- AAEON acquired Astech Technology Inc. to form the core of its panel PC Division

1999

- AAEON established sales offices in Europe and China

1998

- AAEON established its first office in Taipei, Taiwan

1997

- AAEON awarded the Computex Taipei 2012 Best Choice of the Year Award
- AAEON awarded the 21st Taiwan Symbol of Excellence Award
- AAEON awarded the Computex Taipei 2011 Best Choice of the Year Award
- AAEON joined ASUSTeK Computer Inc. (ASUS)

1996

- AAEON awarded the Computex Taipei 2010 Best Choice of the Year Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

1995

- AAEON awarded the 16th Taiwan Symbol of Excellence Award
- AAEON awarded the INFO TECH 100 TAIWAN Award

1994

- AAEON awarded the Computex Taipei Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

1993

- AAEON awarded the Computex Taipei 2003 Best Choice of the Year Award
- AAEON established a U.S. West Coast sales office in Brea, California
- AAEON moved its European branch to the Netherlands

1992

- AAEON awarded the Computex Taipei 2011 Best Choice of the Year Award
- AAEON established an OTC (Over The Counter) stock company
- AAEON set up a Singapore office

Note: All specifications are subject to change without notice.
A member of the ASUS Group: A strong high-tech conglomerate

ASUS Technology and Financing
AAEON Design Flexibility and Domain Know-how

OEM/ODM Capability

The OEM/ODM service has been a key factor in AAEON's phenomenal growth over the past 10 years. AAEON offers design services for full custom requirements as well as modification services for its off-the-shelf products. Whatever you need, AAEON has the experience and expertise to help you create or modify products to perfectly fit your requirements.
Core Competence

Product Innovation
AAEON’s integration expertise is integral to product designs that have the most desirable built-in features, saving customers valuable design and customization time. AAEON’s OEM/ODM capabilities help us meet customers’ exact specifications and requirements. In addition, AAEON has invested aggressively in R&D capabilities and will continue to do so to maintain a competitive advantage for new designs. In cooperation with premier technology vendors, AAEON participates in vendor early access programs to provide the latest technology to its customers.

Market Focus
AAEON has established a worldwide reputation for exceptional domain know-how. This expertise has enabled AAEON to secure a solid position in Machine and Factory Automation, as well as the Chemical Industry. Additionally, AAEON’s cutting edge products meet the specific requirements of the Digital Signage, Transportation, Industrial Automation, Medical, Harbor/Marine, Military/Government, Public Safety and Energy sectors.

R&D Strength
AAEON takes great pride in its World Class R&D aptitudes. With more than 20% of AAEON’s workforce employed in R&D and 10% of annual sales revenue invested in this field, AAEON is prepared to handle the most demanding designs based on the latest technologies. With our strong background in innovation, AAEON has been granted a raft of design patents around the world.

Design Capability
From our core competence of single board computer design, AAEON has expanded its capabilities to award-winning Panel PC System Design, BIOS Engineering with multi-vendor expertise, Mechanical Design, Peripheral Device Design, Design Verification and in-house EMI/EMC Debugging.

Manufacturing Capability
AAEON has manufacturing facilities located in Taipei, Taiwan and Suzhou, China. To become the leading supplier of Industrial Computers, AAEON has created manufacturing facilities with flexible layouts and expansion capabilities to easily address the demand for increased production capacity. Drawing upon the skills of its professional and experienced personnel to develop an efficient production system, AAEON has the ability to respond rapidly to customer requests for standard or customized IPC products.
AAEON’s Quality Assurance Closed Loop Feedback System provides solid and consistent feedback through the design, manufacturing and service stages to ensure continuous progress and meet customer expectations. The three stages of the Quality Assurance System are Design Quality Assurance (DQA), Manufacturing Quality Assurance (MQA) and Service Quality Assurance (SQA).

**DQA**
Design Quality Assurance starts at the conceptual stage of a project and covers the product development stage to ensure the utmost quality throughout the process. AAEON’s safety and environmental test labs ensure our products meet the requirements of CE/UL/FCC/CCC standards. All AAEON products go through an extensive and comprehensive test plan for compatibility, function, performance and usability. Therefore, AAEON customers can always expect to receive well-designed, high-quality products.

**MQA**
Manufacturing Quality Assurance is carried out in accordance with ISO 9001, ISO 13485, ISO 14001 certification standards. All AAEON products are built using production and quality testing equipment in a static-free environment. Additionally, these products go through rigorous tests on the production line and dynamic aging in the burn-in room. AAEON’s Total Quality Control (TQC) program includes Incoming Quality Control (IQC), In-Process Quality Control (IPQC) and Final Quality Control (FQC). Periodic training, auditing and facility calibration are strictly implemented to ensure all quality standards are followed to meet customers’ requirements. The Quality Control Team constantly communicates with R&D to improve product performance and compatibility.

**SQA**
Service Quality Assurance includes technical support and a repair service. With SQA, AAEON can serve its customers and also receive their feedback and work with R&D and Manufacturing to strengthen AAEON’s response time in resolving customer concerns and improve service levels.

**Technical Support**
The backbone of customer support is a team of professional Application Engineers who provide customers with real-time technical support. Their expertise is shared through internal knowledge management and links to the website for online nonstop service and solutions.

**Repair Service**
With an efficient eRMA system and RMA service policy, AAEON’s RMA Team is able to ensure prompt, high-quality product repair and replacement services with a short turnaround time.

**Quality Certification**
AAEON has acquired many official certifications to maintain its quality system.

- ISO 14001: EMS Standards, 2015
- ISO 27001: ISMS, 2013
- 3C: China Compulsory Certification
- CE/FCC: All AAEON products undergo and meet CE and FCC test standards which prove their design quality and integrity

Note: All specifications are subject to change without notice.
**Introduction**

Computing in the environment of Industry 4.0 means taking full advantage of innovative technologies and frameworks such as IoT, decentralizing of data processing, and utilizing wireless communication to overcome the limitations of physical infrastructure. As more things depend on technology, it is more important that we can carry that technology with us through the power of mobile computing.

AAEON Rugged Mobile Computing Solutions are designed to provide flexible and tough platforms built to handle working in environments which are harsh or abusive for consumer grade products. These rugged tablet PCs and semi-rugged tablet PCs provide reliable operation whether indoors or outside, in cold freezers or hot weather, onboard buses and controlling entryways. AAEON’s Rugged Mobile Computing Solutions are built for work, in the field, in the office, or wherever is demanded.
Mobile Computing Solutions

Note: All specifications are subject to change without notice.

www.aaeon.com
Rugged Tablet Computers

Introduction

AAEON’s new line of Rugged Tablet Computers (RTC) are MIL-STD-810G compliant and meet IP65 ratings. The RTC Series is built from the ground up to withstand water, dust, vibrations and shocks, as well as the extreme temperatures found in a variety of harsh conditions. The RTC product line will go wherever the job takes you. Encased in a tough magnesium alloy, the RTC Series offers secure and reliable mobile computing, whether it is vehicle mounted or hand carried into the field.

The rugged mobile computing market continues to grow as we find new ways to improve performance and productivity by enabling connectivity in the workforce. The RTC series offers up-to-the-minute information and in-field data acquisition, which makes mobile computing not just a valuable asset, but a critical requirement. Powered by low-power processors, such as Intel® and Rockchip, the RTC line delivers high performance with low power consumption. AAEON rugged tablet batteries can meet the demands of a full day’s work in the field. Docking station options and vehicle chargers will keep the system up and running for multiple shift operations. These ergonomic and conveniently sized tablets are lightweight and will go with you anywhere to tackle the job on hand.

The PCAP touch screen and Advanced Optibond Technology (AOT™) allows easy and accurate data input. The programmable function keys are all standard features that make AAEON’s RTC product line your best choice for mobile computing.

Featured Products

RTC-710AP

Windows-based 7” Rugged Tablet Computer
• 7” WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
• Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
• Onboard LPDDR4 Memory, 4GB (Default) / 8GB
• eMMC 64GB (Default) / 128GB
• Projected Capacitive Multi-Touch Screen
• WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
• 2MP Front and 8MP Rear Camera
• RS-232 COM Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
• USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
• 2D Barcode Scanner via I/O Module (Optional)
• NFC (HF RFID) Reader (Optional)
• Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
• MIL-STD-810G, IP65 Compliant, Drop 122cm
• Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
• Windows® 10 IOT

RTC-710RK

Android-based 7” Rugged Tablet Computer
• 7” WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
• Rockchip RK3399K Processor
• Onboard LPDDR4 Memory, 2GB (Default) / 4GB
• eMMC 16GB (Default) / 32GB / 64GB
• Projected Capacitive Multi-Touch Screen
• WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
• 8MP Front and 8MP Rear Camera
• UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
• USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
• 2D Barcode Scanner via I/O Module (Optional)
• NFC (HF RFID) Reader (Optional)
• GPS + GLONASS (Default), BeiDou (Optional)
• One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
• MIL-STD-810G, IP65 Compliant, Drop 122cm
• Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
• Android 8.1

Note: All specifications are subject to change without notice.
Rugged Tablet Computers

RTC-1010

10.1" Rugged Tablet Computer
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2D Barcode Scanner & Smart Card Reader / HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT

RTC-1010M

10.1" Semi-rugged Tablet Computer
- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
- eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID (NFC) / MSR Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- IP54 Compliant, Drop 76cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT

RTC-1200

11.6" Rugged Tablet Computer
- 11.6" FHD (1920 x 1080) 500-nit / 850-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9 GHz
- One DDR4 SODIMM Socket, Up to 16GB
- One M.2 Slot for SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner / HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, P1, P2, P3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT

RTC-1020

10.1" Rugged Tablet Computer
- 10.1" FHD (1920 x 1200) 450-nit / 850-nit TFT LCD
- Intel® Core™ i Tiger Lake UP3 Processor
- Onboard LPDDR4X, 8GB (Default) / 16GB
- M.2 SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 5MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID (NFC) / MSR Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery, 14.4V/ 2270mAh, 32.7W x 2 (51.1W x 2, Optional)
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT (Default), Ubuntu

Note: All specifications are subject to change without notice.
**Accessories**

**RTC-1010 & RTC-1010M**

- **RDS-411 (Rugged Docking Station)**
  - Apply on RTC-1010/RTC-1010M
  - Front-facing I/Os: USB 2.0 x 2 with Protection Cover
  - Downward-facing I/Os for Easy Cable Management: USB 2.0 x 2, RS-232 x 1 (Two: Optional), RJ45 GbE x 1, DC-in Phoenix Connector x 1
  - Wide Voltage Input: 9VDC – 36VDC
  - Power Adaptor: AC Power Adaptor (Default)
  - Anti-theft Lock with Key & VESA Mount

- **RTC-1010-HS-000**
  - Hand Strap for RTC-1010/RTC-1010M

- **RTC-1010-SB-000**
  - Shoulder Belt for RTC-1010/RTC-1010M

- **1255900363**
  - DC-To-DC Power Adapter, Flying Wires for RTC-1010/RTC-1010M

- **1255900364**
  - DC-To-DC Power Adapter, Cigarette Plug for RTC-1010/RTC-1010M

- **RTC-1010-VMP-000**
  - VESA Mount Plate for RTC-1010/RTC-1010M

- **RTC-1200**

- **RTC-1200BAT01-000**
  - Battery Pack for RTC-1010/RTC-1010M, RTC-1200
  - *Li-on battery shipping is regulated by IATA DGR, special method and extra fee applies.

- **RTC-1200BLT01-000**
  - Shoulder Belt for RTC-1200

- **RTC-1200BKT01-000**
  - VESA Mount Bracket for RTC-1200

- **RTC-1200BAT02-000**
  - Shoulder Belt for RTC-1200

- **RTC-1200BKT01-000**
  - VESA Mount Bracket for RTC-1200

- **RTC-1200-000**
  - 4-bay Battery Charger for RTC-1010/RTC-1010M, RTC-1200

- **RTC-1200BAT01-000**
  - Battery Pack for RTC-1010/RTC-1010M, RTC-1200
  - *Li-on battery shipping is regulated by IATA DGR, special method and extra fee applies.

**RTC-1200**

- **RDS-241V (Rugged Docking Station)**
  - Anti-theft Lock with Key & VESA mount
  - Downward-facing I/Os for Easy Cable Management
  - Ext. GPS and WWAN with SMA Connector
  - Front-facing I/O: USB x 2 in landscape Side
  - Downward-facing I/Os: USB 3.2 Gen 1 Dual Port x 1 + RS-232 x 2, One with 5V in Pin9 & the Other with GPIO x 8, GbE x 1, M12 DC-in x 1
  - Wide Voltage Range: 9V DC ~ 36V DC in M12-5P Female Connector
  - Adaptor is Additionally: (Car Adaptor with Cigarette Plug or Std Adaptor for YC-14)

- **RTC-1200HSP01-000**
  - Hand Strap for RTC-1200

- **RTC-1200BLT01-000**
  - Shoulder Belt for RTC-1200

- **RTC-1200BLT02-000**
  - Shoulder Belt for RTC-1200

- **RTC-1200BKT01-000**
  - VESA Mount Bracket for RTC-1200

- **RTC-1200-000**
  - 4-bay Battery Charger for RTC-1010/RTC-1010M, RTC-1200

**Customized Services**

- Longevity Support
- ODM Services
- Small Minimum Order Quantity

*Note: All specifications are subject to change without notice.*
**Fully-Rugged Design**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Resistant</strong></td>
<td>- IEC 60529</td>
</tr>
<tr>
<td></td>
<td>- IPx5 standard</td>
</tr>
<tr>
<td><strong>Drop Test</strong></td>
<td>- MIL-STD-810G Method 516.6 Procedure IV</td>
</tr>
<tr>
<td><strong>Dust Proof</strong></td>
<td>- IEC 60529</td>
</tr>
<tr>
<td></td>
<td>- IP6x standard</td>
</tr>
<tr>
<td><strong>Vibration Test</strong></td>
<td>- MIL-STD-810G Method 514.6 Procedure I Cat. 24, Fig. 514.6E-1 &amp; 514.6E-2</td>
</tr>
<tr>
<td></td>
<td>- ASTM 4169-99 Truck Assurance Level II, Schedule E</td>
</tr>
<tr>
<td><strong>Temperature Test</strong></td>
<td>- MIL-STD-810G Method 501.5 Procedure I &amp; II, Method 502.5 Procedure I &amp; II, Method 503.5 Procedure I, Method 507.5 Procedure II</td>
</tr>
</tbody>
</table>

**Outdoor Application**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sunlight Readable LCD</strong></td>
<td>- Readable under sunlight</td>
</tr>
<tr>
<td></td>
<td>- Higher brightness solution</td>
</tr>
<tr>
<td></td>
<td>- AOT optical bonding</td>
</tr>
<tr>
<td><strong>Ambient Light Sensor</strong></td>
<td>- Power savings in dark environments</td>
</tr>
<tr>
<td></td>
<td>- Detects light and brightness</td>
</tr>
<tr>
<td><strong>AOT™ (Advanced Optibond Technology)</strong></td>
<td>- The best reflection reduction among any commercially available technology</td>
</tr>
<tr>
<td></td>
<td>- Reinforces the LCD display, making it much more rugged</td>
</tr>
<tr>
<td><strong>Long Battery Life</strong></td>
<td>- Hot-swappable batteries design</td>
</tr>
</tbody>
</table>

**Built-in Versatile Sensors**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GPS</strong></td>
<td>Stand-alone GPS Navigation module</td>
</tr>
<tr>
<td><strong>G Sensor</strong></td>
<td>Gravity sensor</td>
</tr>
<tr>
<td><strong>E-Compass</strong></td>
<td>Electronic compass</td>
</tr>
<tr>
<td><strong>Gyro Sensor</strong></td>
<td>Electronic gyroscopes</td>
</tr>
</tbody>
</table>

**Wireless Communication**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4G</strong></td>
<td>LTE</td>
</tr>
<tr>
<td><strong>Bluetooth®</strong></td>
<td>2.1/3.0/4.1/4.2/5.0</td>
</tr>
<tr>
<td><strong>WiFi</strong></td>
<td>a/b/g/n/ac</td>
</tr>
<tr>
<td><strong>NFC</strong></td>
<td>13.56MHz Near Field Communication</td>
</tr>
<tr>
<td><strong>RFID</strong></td>
<td>13.56MHz Radio Frequency Identification</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
Applications

Requirements

- IP65-rated
- MIL-STD-810G-compliant
- Sunlight readable screens
- Wireless communication
- Long battery life
- Lightweight

Military

From combat readiness to logistical management, the need for rugged mobile computing to support military operations is clear. On and off the battlefield, soldiers need to not only communicate quickly and effectively, but those who support the front line need to ensure critical supplies get to where they’re needed most.

AAEON offers MIL-STD-810G compliant and IP65 rated platforms, such as the RTC-1010 and RTC-710RK, which are designed to endure rough handling and harsh conditions that come with maintaining the supply lines for a modern force. Sunlight readable screens which can be adapted for use with gloves, allow for these rugged tablets to operate indoors and out, wherever military equipment and hardware needs to be moved. Effective and reliable communication is also provided through support for Wi-Fi, 4G/LTE and Bluetooth as well as various GPS protocols.
One application which has benefited greatly thanks to the deployment of rugged mobile computing is field service and inspection. A job which is almost exclusively conducted outdoors or at unfinished sites, having a rugged tablet able to hold up to the rigors of field work is essential. The RTC-710AP and RTC-1010 rugged tablets are perfectly suited for the task, with wide operating temperature ranges and IP65 rated sealing to keep out dust, sand, water and other particulates commonly encountered during on-site work in the field.

Built in 8MP rear and 2MP front cameras provide added benefit for field inspectors to take on-site photos, and I/O connections allow the rugged tablets to connect to field equipment as needed. Wireless communications support with Wi-Fi and 4G/LTE allows for instant communication either through teleconferencing, submitting reports, or quickly uploading photos and documents to the cloud. On-board support for GPS navigation also means it’s hard to get lost with AAEON rugged tablets.
Applications

Requirements

- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life
- Mechanical control

Heavy Machinery

Rugged mobile computing is helping to connect heavy machinery with the latest modern applications. Whether it’s controlling equipment directly and providing human-machine interface, or acting as a monitor to track and report diagnostics and conditions, AAEON rugged tablets such as the RTC-1010 and RTC-710AP provide a vital tool in operating and maintaining heavy machinery.

Built for operating in any condition, whether indoors or out, AAEON rugged tablets feature touchscreens in a range of sizes from 7” to 11.6” with sunlight readable screens, configurable for use while wearing gloves as well as physical buttons for easier operation. Wireless support includes Wi-Fi, 4G/LTE, Bluetooth and GPS navigation to stay connected with networks, as well as a suite of I/O ports to allow the rugged tablets to connect directly to machinery when needed.
Requirements

- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life
- Lightweight
- Mechanical control

Warehousing

No where has rugged mobile computing benefited users the most than in warehouses. From keeping track of stock, checking items in or out for shipment, or even managing orders on the go, rugged tablets provide warehouse workers and managers with a powerful tool that’s always at their side. Whether it’s the RTC-710RK or RTC-1010, AAEON rugged tablets are MIL-STD-810G compliant shock tested to provide a platform that can handle the bumps and drops that come with working in a warehouse.

AAEON rugged tablet PCs offer a range of accessories and support that are perfect for handling the toughest warehouse tasks. Hot swappable batteries ensure the tablets keep working all shift long, while optional add-ons such as barcode scanners helps fulfil the needs of logistical planning. Wireless communication with Wi-Fi and 4G/LTE support ensures the device is always connected to the warehouse database, and even provides a way to manage and control warehouse robots.
**Introduction**

AAEON RISC boards offer a compact embedded solution with low profile design, open-source operating system, and low power usage. AAEON RISC boards are powered by the Rockchip RK3288 and RK3399 chipsets, utilizing the latest Arm Cortex multi-core processor technology. Built to the PICO-ITX form factor, AAEON RISC boards are designed compact and with I/O features to make it easy to integrate into any project or application.

**Featured Products**

**RICO-3288**

**Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor**

- Rockchip RK3288
- Onboard DDR3L 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4), eDP, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

**RICO-3288MINI**

**Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor**

- Rockchip RK3288
- Onboard DDR3L 2GB
- Onboard eMMC 16GB
- HDMI (1.4): Up to 4K x 2K @ 60Hz
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- 8-bit GPIO
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

Note: All specifications are subject to change without notice.
RICO-3399
Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor

- Rockchip RK3399
- Onboard LPDDR3 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

Note: All specifications are subject to change without notice.
Introduction

AAEON’s RISC Ready to System (RTS) Solutions combine our knowledge and expertise in RISC architecture, OEM/ODM services and system design to offer developers and systems integrators a more complete package solution to help get their applications off the ground quickly. RTS solutions are based around the flexible RICO-3288 and RICO-3399 PICO-ITX RISC boards powered by Rockchip processors.

Customers can choose to add on components such as LCD with touch screens, 4G/LTE support, cables and connectors. RTS solutions also offer full end-to-end service with board layout customization and mechanical design to mount the board into an enclosure or designing the entire system from the ground up. AAEON RTS Solutions come with industry leading support, working closely to provide services such as customizing Android OS image, testing and validating customer software, and more to help accelerate development and reduce time to market.
Elevator Maintenance Monitor RICO-3399

An elevator company recently decided to modernize the fleet of elevators they help maintain for their customers. One way they did this was to make maintenance more efficient and to address problems as they arise, before they can cause trouble. The company selected the RICO-3399 for the job, with its compact size, stable and reliable operation, and wide temperature design. AAEON helped build a custom Android image which eliminated many unnecessary background applications, further saving processing power and energy, especially when the elevator is not in use. Utilizing wireless communication, the RICO-3399 connects to the company’s maintenance servers allowing them to keep a close eye on the elevator, and help prevent breakdowns before they happen.
Applications

Requirements

- Compact Board
- Reliable Operation
- Custom Android Image
- Mechanical Design Support
- LCD with Touch Screen

Computerized Restaurant Ordering System RICO-3288

While most restaurants try to predict customer traffic and adjust their staffing to match, customer rushes can be unpredictable. Add in customer’s ability to order individual dishes a la carte, such as in a sushi restaurant, and it becomes almost impossible to keep up with each individual diner. Many restaurants are turning to at-table ordering systems, with interactive touch-screen menu displays.

The RICO-3288 and AAEON RISC RTS solutions are at the forefront of designing and deploying these systems, helping provide LCD with touch screens, custom Android images, and even helping with mechanical design for ordering systems which can retract or hide out of the way when customers aren’t using the systems.
Self-Checkout Loss Prevention RICO-3399

It’s well known in the retail industry that self-checkout lanes provide greater customer convenience and experience. However, they have also become one of the highest sources of loss by shoplifting in large retailers. Deploying an object identification and behavioral analysis AI inference, retailers can better track and be alerted to potential shoplifters.

The RICO-3399 offers the processing needed to power these AI Edge Computing inferences, processing multiple camera inputs to observe customers as they check out. This also helps increase accuracy with self-checkout aisles, reducing false alarms which weight-based systems are often prone to. Fanless design and reliable operation also help reduce maintenance costs, and by connecting with the in-store networks, the RICO-3399 can warn loss prevention personnel of potential issues.
AAEON Rugged Mobile and RISC OEM/ODM Services

Introduction

AAEON Rugged Mobile Division (RMD) OEM/ODM team is dedicated to providing services for customers needing durable mobile solutions, whether board level RISC-based solutions or complete rugged systems. AAEON RMD offers over a decade of industry leading expertise and experience to bring end-to-end service and support, from firmware to smart battery management, integrated wireless communication to bright impact resistant LCD screens. RMD OEM/ODM can help accelerate development and reduce time to market whether its large volume production or small projects, with experience across a wide range of applications including ePOS, eBook reader, media boxes, fitness & exercise equipment and even client branded rugged tablets. We’re also engaging new OEM/ODM markets including edge computing, AIOT gateways, and smart factory automation as part of the growing Industry 4.0 ecosystem.

Milestones

- Taiwan Excellence Awards: RTC-700R Gold, RTC-700T Silver
- Awarded ODM contract for mobile POS system by global manufacturer
- Awarded defense contract to deliver RTC-1010, 1,500 units annually
- Awarded contract to provide RTC-700B for access control, 2,000 units annually
- RMD secures four ODM contracts, each valued over $1 million USD
- Your OEM/ODM project

2010
- AAEON Rugged Mobile Division founded
- Awarded ODM Rugged Tablet Contract with Japanese Tier 1 Cellular Carrier, 12,000 units annually

2011

2013
- Taiwan Excellence Awards: RTC-900B, RTC-1200SK
- Mobile POS ODM project mass production, 45,000 units annually

2014
- RMD OEM/ODM services team officially established

2016
- Awarded ODM contract for mobile POS system by global manufacturer

2017

2019
- Mobile POS ODM project mass production, 45,000 units annually

2020

2021
- Your OEM/ODM project

And Beyond

Core Competencies

Embedded Firmware Service
- Power Sequence, Sensors Access

Smart Battery Management
- Gauge Controller, Dual Swappable Batteries, Extend Portable Battery Life

Limitless Mobility
- RFID, 5G, Wi-Fi 6, Bluetooth, GPS

High Brightness LCD
- Low Humidity, High Transmittance, and UV-block Coating

Note: All specifications are subject to change without notice.
AAEON Rugged Mobile and RISC OEM/ODM Services

System

With AAEON RMD OEM/ODM services you get access to our knowledge and experience in designing rugged mobile systems, from mechanical design to selecting the right materials for the job, and ensuring a smooth manufacturing process to reduce and eliminate factory defects. RMD OEM/ODM covers all the bases, from design and process failure mode and effects analysis (DFMEA/PFMEA) to mold flow analysis, mechanical, tolerance and thermal analysis. RMD OEM/ODM offers total end-to-end service in designing, testing and deploying your custom system.

Software

AAEON RMD OEM/ODM team also includes dedicated software support. RMD OEM/ODM team can help power your board with services designed to ensure proper functionality with license operating systems like Microsoft® Windows™ or open-source OS like Android and Debian; building, testing and validating custom operating system images; or helping to validate and debug proprietary software, ensuring it runs smoothly. AAEON RMD OEM/ODM team provides rapid service, responding to software questions or issues quickly to prevent delays in deploying your application.

Board

The foundation of any project, RMD’s OEM/ODM team can help design and build the perfect layout for your project. Utilizing both Intel x86 and ARM based processors including the Rockchip RK3000 series and NXP i.MX8, OEM/ODM customers can choose the best system for their applications. Functionality and flexibility are easy to achieve, whether you need broad I/O and expansion support, built-in Wi-Fi or cellular support (4G/LTE/5G), or need an ultrathin, compact board. How thin can we make it? Yes.

Service

AAEON RMD OEM/ODM team is dedicated to working closely with every customer, providing individualized service throughout the process. Our team responds to inquiries and issues quickly, and provides testing, validation and certification to help accelerate development and reduce time-to-market. RMD OEM/ODM service doesn’t stop at the loading dock, either. AAEON is dedicated to providing service and support after our products leave the factory, providing quick response and turn around including RMAs processed within 24 hours.

Note: All specifications are subject to change without notice.
OMNI Modular Builder

Introduction

The OMNI Panel PC is built with an innovative modular design to make it quick and easy for suppliers and customers to find and build the configuration they need for the job. From panel and box to I/O modules, the OMNI Panel PC offers a range of configurations and combinations you can build.

The OMNI modular panel PC features three main components; the Panel Kit, CPU BOX Kit, and I/O Modules. Each Panel Kit comes with a standard slot attachment, which allows any OMNI CPU BOX kit to be mounted quickly and easily. It only takes three wires and three screws to attach the CPU BOX kit to the Panel Kit. The optional I/O Modules simply plug into the side of the CPU BOX Kit and can be secured with two screws. Even better, the OMNI system uses a plug-and-play style firmware, allowing you to quickly change components without needing to flash or update the BIOS settings.

With this modular design system, customers can easily build or upgrade their own Panel PC, and suppliers can enjoy more flexibility and cost savings while maintaining stock. All a customer needs to do is pick their preferred screen size, the box kit with the processor and specifications desired, and the optional I/O module they need.

Build Your Own or Select a Pre-built System

Select Module Kit to Build Your Configuration

- Panel Kit
- Box Kit
- I/O Module

Pre-built System

Note: All specifications are subject to change without notice.
Build Your Own in Three Steps!

**Step 1: Select a Panel Kit, with sizes from 10.4” up to 21.5”**

**Step 2: Select a CPU Box Kit or a Display Box Kit**

**Step 3: Select an I/O Module (optional)**

**Or Select a pre-built OMNI System**

OMNI-SKU: These systems feature the 6th Generation Intel Core i7/i5/i3 and Celeron 3995 processors (formerly Skylake), combined with up to 16GB of memory.

OMNI-BT: These systems are powered by the Celeron J1900 and Celeron N2807 processors (formerly Bay Trail), with up to 8GB of memory available (J1900 CPU).

OMNI-M: These systems are fitted with the Display Box Kit, allowing you to connect the OMNI panel to any PC system via VGA or HDMI.
Rugged Tablet Computers
**RTC-710RK**

7” Rugged Tablet ARM-based Android™ with 1.6 GHz Quad Core Processor

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**Features**

- 7” WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 8.1

---

**Specifications**

**System Architecture**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Rockchip RK3399K Processor (Quad-Core A53 1.6GHz &amp; Dual-Core A72 2.0GHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating System</td>
<td>Android 8.1</td>
</tr>
<tr>
<td>Memory</td>
<td>Onboard LPDDR4 2GB (Default) / 4GB</td>
</tr>
<tr>
<td>Storage</td>
<td>eMMC 16GB (Default) / 32GB / 64GB</td>
</tr>
<tr>
<td>Display</td>
<td>7” WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen</td>
</tr>
<tr>
<td>I/O Port</td>
<td>SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, UART Port x 1 (Via I/O Module), 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)</td>
</tr>
<tr>
<td>Communication</td>
<td>Wi-Fi 802.11 b/g/n, Bluetooth v4.2, EDI + BLE</td>
</tr>
<tr>
<td>Navigation</td>
<td>GPS + GLONASS (Default), BeiDou (Optional), External Antenna (Optional)</td>
</tr>
<tr>
<td>WWAN (Optional)</td>
<td>LTE via M.2 slot (Optional)</td>
</tr>
<tr>
<td>Camera</td>
<td>8MP front camera, 8MP rear camera with flash</td>
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<td>Expansion Slot</td>
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**Features**

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- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
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- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
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**Note:** All specifications are subject to change without notice.
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Packing List

- RTC-710RK
- 1255X00008
  AC-To-DC Power Adaptor, 12V, 40W
*Power cord must be purchased separately.

Optional Accessories

- RDS-0710-000
  Docking Station
- RDS-0710-001
  Docking Station, W/ Stand
- RTC-710-HS-000
  Hand Strap
- RTC-710-BAG-000
  Carrying Bag
- RDS-0040-0000
  4-Bay Battery Charger
- 9741600R04
  Battery Pack, 7.4V, 1530mAh, 2pcs/Box
- RTC-710-VMP-000
  VESA Mount Plate
- 1259X00003
  Car Adapter, Cigarette Plug
- 1702031802
  Power Cord for USA
- 1702031803
  Power Cord for Europe
- 170203180J
  Power Cord for UK
- 170203180E
  Power Cord for Japan

Ordering Information

<table>
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<tr>
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<th>CPU</th>
<th>OS</th>
<th>Display</th>
<th>Touch Screen</th>
<th>System Memory</th>
<th>Storage</th>
<th>Expansion I/O</th>
<th>Sensor</th>
<th>WiFi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
<th>Camera</th>
<th>Docking</th>
<th>2D Barcode Scanner</th>
<th>HF RFID</th>
<th>Battery</th>
<th>Power</th>
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<tbody>
<tr>
<td>RTC-710RK- RH0001</td>
<td>RK3399K</td>
<td>Android 8.1</td>
<td>7&quot; 700 nits</td>
<td>PCT 10 points</td>
<td>LPDDR4 2GB</td>
<td>4MMC 16GB</td>
<td>SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1</td>
<td>G-sensor Lynx-sensor Light-sensor</td>
<td>802.11 b/g/n + BT4.2</td>
<td>—</td>
<td>Front: BMP —</td>
<td>—</td>
<td>32.7W + (internal)</td>
<td>DC12V</td>
<td></td>
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<tr>
<td>RTC-710RK- RH0002</td>
<td>RK3399K</td>
<td>Android 8.1</td>
<td>7&quot; 700 nits</td>
<td>PCT 10 points</td>
<td>LPDDR4 2GB</td>
<td>4MMC 16GB</td>
<td>SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1</td>
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<td>RTC-710RK- RH0004</td>
<td>RK3399K</td>
<td>Android 8.1</td>
<td>7&quot; 700 nits</td>
<td>PCT 10 points</td>
<td>LPDDR4 2GB</td>
<td>4MMC 16GB</td>
<td>SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, 2D BCR x 1 (Via I/O Module)</td>
<td>G-sensor Lynx-sensor Light-sensor</td>
<td>802.11 b/g/n + BT4.2</td>
<td>—</td>
<td>Front: BMP</td>
<td>—</td>
<td>Yes</td>
<td>32.7W + 11.3W</td>
<td>DC12V</td>
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<td>LPDDR4 2GB</td>
<td>4MMC 16GB</td>
<td>SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1</td>
<td>G-sensor Lynx-sensor Light-sensor</td>
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<td>—</td>
<td>Front: BMP</td>
<td>—</td>
<td>Yes</td>
<td>32.7W + 11.3W</td>
<td>DC12V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

RTC-710RK

Rugged Tablet Computers

Dimension

Unit: mm

Note: All specifications are subject to change without notice.

www.aaeon.com
RTC-710AP

7” Rugged Tablet Features Intel® N3350 / N4200 Processor with Windows® 10

Features
- 7” WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Intel® Celeron® N3350 1.1GHz Dual Core up to 2.4GHz (N4200 Optional)
- Onboard LPDDR4 Memory, 4GB (Default) / 8GB
- eMMC 64GB (Default) / 128GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232 COM Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT

Specifications

System Architecture
- Processor: Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz
- Intel® Pentium® N4200 1.1GHz Quad core up to 2.5GHz
- Operating System: Windows® 10 IOT Enterprise SAC
- Memory: Onboard LPDDR4 4GB (Default) / 8GB
- Storage: eMMC 64GB (Default) / 128GB
- Display: 7” WXGA (1280x800) 300-nit / 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen

I/O Port
- SIM card slot x 1
- USB 3.2 Gen 1 Type-C x 1
- Audio jack x 1 (3.5mm)
- DC-in jack x 1
- Micro-SD card slot x 1
- USB 2.0 Type-A x 1
- RS-232 COM Port x 1 (Via I/O Module)
- 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)
- Communication: Wi-Fi 802.11 b/g/n, Bluetooth v5.1
- Navigation: Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- WWAN (Optional): LTE via M.2 slot (Optional)
- Camera: 2MP front camera, 8MP rear camera with flash
- Sensor: G-sensor, E-compass, Gyro-sensor, Light-sensor
- Expansion Slot: M.2 slot x 1, Docking connector: USB 3.2 Gen 1 x 1
- Barcode Scanner (Optional): 2D Barcode scanner, OPTICON MDI-4100-USB via I/O Module (Optional)

Certifications and Standards
- CE, FCC

Power Supply
- AC / DC Adapter: AC 100 – 240 V, 50 – 60 Hz, Output: 12V: 3.34A / 40W
- Battery Life: Li-ion Battery 8-hour battery life based on test configurations
- Master Battery: 7.2V, 4540mAh, 32.7W
- Slave Battery: Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)

Display
- LCD: 7” TFT-LCD / 16:10, with LED backlight
- Resolution: 1280 x 800
- Brightness: 700 / 300 nits
- Viewing Angle: Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
- Touch Screen
  - Touch Type: 7” Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
  - Light Transmission: Min. 85%

Note: All specifications are subject to change without notice.
### Packing List

- **RTC-710AP**
- **RTC-710-000**
- **RTC-710-001**
- **RTC-710-HS-000**
- **RTC-710-BAG-000**
- **RTC-710-VMP-000**
- **RTC-710-VMP-000**

*Power cord must be purchased separately.*

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### Optional Accessories

- **RDS-0710-000**
- **RDS-0710-001**
- **RTC-710-VMP-000**
- **RDS-0040-000**
- **RTC-710-VMP-000**
- **RTC-710-VMP-000**
- **RTC-710-VMP-000**
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<th>WiFi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
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<th>Docking Connector</th>
<th>2D Barcode Scanner</th>
<th>NFC</th>
<th>Battery</th>
<th>Power</th>
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</thead>
<tbody>
<tr>
<td>RTC-710AP-RH0001</td>
<td>N4200</td>
<td>Windows 10 IOT</td>
<td>7&quot;</td>
<td>PCT 10 points</td>
<td>LPDDR4 4GB</td>
<td>eMMC 64GB</td>
<td>SIM card slot x 1</td>
<td>USB 3.2 Gen 1 Type-C x 1</td>
<td>DC-in jack x 1</td>
<td>Micro-SD card slot x 1</td>
<td>USB 2.0 Type-A x 1</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>Bluetooth</td>
<td>Rear: 2MP</td>
<td>—</td>
<td>32.7W (internal)</td>
<td>DC12V</td>
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<tr>
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<td>USB 2.0 Type-A x 1</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>Bluetooth</td>
<td>Rear: 2MP</td>
<td>Yes</td>
<td>32.7W (internal)</td>
<td>+11.3W (external)</td>
</tr>
<tr>
<td>RTC-710AP-RH0003</td>
<td>N4200</td>
<td>Windows 10 IOT</td>
<td>7&quot;</td>
<td>PCT 10 points</td>
<td>LPDDR4 4GB</td>
<td>eMMC 64GB</td>
<td>SIM card slot x 1</td>
<td>USB 3.2 Gen 1 Type-C x 1</td>
<td>DC-in jack x 1</td>
<td>Micro-SD card slot x 1</td>
<td>USB 2.0 Type-A x 1 RS232 Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>Bluetooth</td>
<td>Rear: 2MP</td>
<td>Yes</td>
<td>32.7W (internal)</td>
<td>+11.3W (external)</td>
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<tr>
<td>RTC-710AP-RH0004</td>
<td>N4200</td>
<td>Windows 10 IOT</td>
<td>7&quot;</td>
<td>PCT 10 points</td>
<td>LPDDR4 4GB</td>
<td>eMMC 64GB</td>
<td>SIM card slot x 1</td>
<td>USB 3.2 Gen 1 Type-C x 1</td>
<td>DC-in jack x 1</td>
<td>Micro-SD card slot x 1</td>
<td>USB 2.0 Type-A x 1 2D BCR x 1 (Via I/O Module)</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>Bluetooth</td>
<td>Rear: 2MP</td>
<td>Yes</td>
<td>32.7W (internal)</td>
<td>+11.3W (external)</td>
</tr>
</tbody>
</table>

*Power cord must be purchased separately.*
## Features

- **10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD**
- Intel® Celeron® N3350 1.1GHz Dual core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader / HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT

## Specifications

### System Architecture

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows® 10 IOT Enterprise SAC</td>
</tr>
<tr>
<td>Memory</td>
<td>Onboard DDR3L 4GB (Default) / 8GB</td>
</tr>
<tr>
<td>Storage</td>
<td>eMMC 64GB (Up to 256GB, Optional)</td>
</tr>
<tr>
<td>Display</td>
<td>10.1&quot; WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen</td>
</tr>
<tr>
<td>I/O Port</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Audio jack x 1 (3.5mm), Micro-SD card slot x 1, DC-in jack x 1, RS-232/422/485 COM Port x 1, Smart card reader x 1 (optional, Without IP protection)</td>
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<tr>
<td>Communication</td>
<td>Wi-Fi 802.11 b/g/n, Bluetooth v5.1 (EDR + BLE), Intel AC9260</td>
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<tr>
<td>Navigation</td>
<td>Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)</td>
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<tr>
<td>WWAN (Optional)</td>
<td>LTE via mini-card slot (Optional)</td>
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<tr>
<td>Camera</td>
<td>2MP front camera, 8MP rear camera with flash</td>
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<tr>
<td>Sensor</td>
<td>G-sensor, E-compass, Gyro-sensor, Light-sensor</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Inside M.2 slot x 1 (For WiFi module), Mini-card slot x 1 (For LTE module), Docking connecter: USB 2.0 x 1</td>
</tr>
</tbody>
</table>

### Display

- **LCD**: 10.1" TFT-LCD Display
- **Resolution**: 1280 x 800
- **Maximum Color**: 16.7M
- **Dot Size**: 0.1692 (H) x 0.1692 (V) mm
- **Brightness**: 300 nits (300 nits, Optional)
- **Viewing Angle**: Horizontal: 170°, Vertical: 170° (Typical)

### Touch Screen

- **Touch Type**: Projected Capacitive Multi-Touch Screen (PCT)
- **Light Transmission**: Min. 85%
**Rugged Tablet Computers**

**RTC-1010**

### Optional Accessories
- **RDS-411-000**
  - Docking Station, W/O Stand
- **RDS-411-001**
  - Docking Station, W/ Stand
- **RBC-1200-000**
  - 4-bay Battery Charger
- **RTC-1010-HS-000**
  - Hand Strap
- **RTC-1010-SB-000**
  - Shoulder Belt, 2 Points
- **RTC-1200BAT01-000**
  - Battery Pack, 14.4V, 2270mAh, 2 pcs/Box

### Packing List
- **RTC-1010**
- **1255300365**
  - AC-To-DC Power Adaptor, 12V, 36W

*Power cord must be purchased separately.

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>OS</th>
<th>LCD Display</th>
<th>Touch Screen</th>
<th>System Memory</th>
<th>Storage</th>
<th>Expansion I/O</th>
<th>Sensor</th>
<th>Wi-Fi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
<th>Camera</th>
<th>2D Barcode Scanner</th>
<th>NFC</th>
<th>Battery</th>
<th>Power</th>
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<td>10.1”</td>
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<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>N/A</td>
<td>N/A</td>
<td>Front: 2MP</td>
<td>N/A</td>
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<td>RTC-1010-R2005</td>
<td>N3350</td>
<td>Windows 10 IOT</td>
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<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45</td>
<td>802.11 b/g/n + BT5.1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>GPS / Galileo / GLONASS</td>
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<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45</td>
<td>802.11 b/g/n + BT5.1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>GPS / Galileo / GLONASS</td>
<td>N/A</td>
<td>“Front: 2MP Rear: W/ Flash”</td>
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<td>Windows 10 IOT</td>
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<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45</td>
<td>802.11 b/g/n + BT5.1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>GPS / Galileo / GLONASS</td>
<td>N/A</td>
<td>“Front: 2MP Rear: W/ Flash”</td>
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<tr>
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<td>N4200</td>
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<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45</td>
<td>802.11 b/g/n + BT5.1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>GPS / Galileo / GLONASS</td>
<td>N/A</td>
<td>“Front: 2MP Rear: W/ Flash”</td>
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<tr>
<td>RTC-1010-RH2003</td>
<td>N4200</td>
<td>Windows 10 IOT</td>
<td>10.1”</td>
<td>300 nits</td>
<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.0 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45</td>
<td>802.11 b/g/n + BT5.1</td>
<td>802.11 b/g/n + BT5.1</td>
<td>GPS / Galileo / GLONASS</td>
<td>N/A</td>
<td>“Front: 2MP Rear: W/ Flash”</td>
</tr>
</tbody>
</table>

**Note:** All specifications are subject to change without notice.

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RTC-1010M

10.1” Semi-rugged Tablet Features Intel® N3350 / N4200 Processor With Windows® 10

Features
- 10.1” WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron® N3350 1.1GHz Dual Core up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) / 8GB
eMMC 64GB (Up to 256GB, Optional)
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45 (Optional)
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner & Smart Card Reader (Optional)
- HF RFID (NFC) / MSR Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- IP54 Compliant, Drop 76cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT

Specifications

**System Architecture**
- Processor: Intel® Celeron® N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium® N4200 1.1GHz Dual core up to 2.5GHz
- Operating System: Windows® 10 IOT Enterprise SAC
- Memory: Onboard DDR3L 4GB (Default) / 8GB
- Storage: eMMC 64GB (Up to 256GB, Optional)
- Display: 10.1” WXGA (1280 x 800) 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen
- I/O Port: Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1 (3.5mm), USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2, DC-in jack x 1, RS-232/422/485 COM Port x 1 (Optional) 10/100/1000 Base-T RJ45 x 1 (Optional)
- Smart card reader x 1 (Optional, Without IP protection)
- MSR reader x 1 (Optional, Without IP protection)
- Communication: Wi-Fi 802.11 b/g/n, Bluetooth v5.1 (EDR + BLE), Intel AC9260
- Navigation: Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- WWAN(Optional): LTE via mini-card slot (Optional)
- Camera: 2MP front camera, 8MP rear camera with flash
- Sensor: G-sensor, E-compass, Gyro-sensor, Light-sensor
- Expansion Slot: Inside M.2 slot x 1 (For WiFi module) Mini-card slot x 1 (For LTE module) Docking connector: USB 2.0 x 1
- Barcode Scanner (Optional): 2D Barcode scanner, OPTICON MDI-4100-USB (Optional)
- HF RFID (Optional): ISO 15693 (R/W), ISO 18002 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type
- Audio: Speaker x 1
- Physical Key: F0 or Windows (Windows Start Key), F1 (BCR Trigger Button (When BCR is enabled)), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up, Volume Down, Without IP Protection
- Mechanical: Color: Black & Dark Grey
- Dimension (W x H x D): 10.71” x 7.48” x 0.80” (272.0 x 190.0 x 20.4 mm)
- Gross Weight: 2.1 lb (0.95 Kg) based on configurations
- Environmental: Operating Temperature: -4°F ~ 122°F (-20°C ~ 50°C)
- Storage Temperature: -22°F ~ 158°F (-30°C ~ 70°C)
- Humidity: 0% ~ 90% relative humidity, non-condensing
- ESD: Air charge: +/- 8KV, Contact charge: +/- 4KV
- Certifications and Standards: UL60950-1, CE, FCC

**Power Supply**
- AC / DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V 3A/ 36W
- Battery Life: Li-ion Battery 8-hour battery life based on test configurations
- Master Battery: Hot-swappable battery: 14.4V, 2270mAh, 32.7W
- Slave Battery: 7.4V, 1530mAh, 11.3W

**Display**
- LCD: 10.1” TFT-LCD Display
- Resolution: 1280 x 800
- Maximum Color: 16.7M
- Dot Size: 0.1692 (H) x 0.1692 (V) mm
- Brightness: 300 nits (800 nits, Optional)
- Viewing Angle: Horizontal: 170°, Vertical: 170° (Typical)

**Touch Screen**
- Touch Type: Projected Capacitive Multi-Touch Screen (PCT)
- Light Transmission: Min. 85%

Note: All specifications are subject to change without notice.
Dimension

Unit: mm

Rugged Tablet Computers

RTC-1010M

Optional Accessories

- RTC-1010-000
  Docking Station, W/ Stand
- RTC-1010-001
  Docking Station, W/ Stand
- RBC-1200-000
  4-bay Battery Charger
- RTC-1010-HS-000
  Hand Strap
- RTC-1010-SB-000
  Shoulder Belt, 2 Points
- RTC-1200BAT01-000
  Battery Pack, 14.4V, 2270mAh, 2 pcs/Box

Packing List

- RTC-1010M
  1255300365
  AC-To-DC Power Adaptor, 12V, 36W
  *Power cord must be purchased separately.

Ordering Information

<table>
<thead>
<tr>
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<th>LCD Display</th>
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<th>System Memory</th>
<th>Storage</th>
<th>Expansion I/O</th>
<th>Sensor</th>
<th>WiFi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
<th>Camera</th>
<th>2D Barcode Scanner</th>
<th>SCRN</th>
<th>HF RFID</th>
<th>MSR</th>
<th>Battery</th>
<th>Power</th>
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<tbody>
<tr>
<td>RTC-1010-M2002</td>
<td>N3350</td>
<td>Windows 10</td>
<td>13.1&quot;</td>
<td>300 nits</td>
<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1</td>
<td>Micro-SD card slot x 1</td>
<td>Audio jack x 1</td>
<td>USB 3.0 x 2 (USB Type-C x 1),</td>
<td>USB 2.0 x 2</td>
<td>DC-in jack x 1</td>
<td>G-sensor</td>
<td>E-compass</td>
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<tr>
<td>RTC-1010-M2003</td>
<td>N4200</td>
<td>Windows 10</td>
<td>13.1&quot;</td>
<td>300 nits</td>
<td>PCT</td>
<td>10 points</td>
<td>DDR3L</td>
<td>4GB</td>
<td>eMMC</td>
<td>64GB</td>
<td>Micro-HDMI port x 1</td>
<td>Micro-SD card slot x 1</td>
<td>Audio jack x 1</td>
<td>USB 3.0 x 2 (USB Type-C x 1),</td>
<td>USB 2.0 x 2</td>
<td>DC-in jack x 1</td>
<td>RS-232/422/485 COM Port x 1</td>
<td>10/100/1000 Base-T RJ45 x 1</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.

www.aaeon.com
## Specifications

### System Architecture

| Processor | Intel® Core™ i Tiger Lake UP3 processor (i5-1145G7E / i3-1115G4E / Celeron 6305E) |
| Operating System | Windows® 10 IOT Enterprise SAC (Default), Ubuntu |
| Memory | Onboard LPDDR4X, 6GB (Default) / 16GB |
| Storage | M.2 SSD, 64GB (Default) / 128GB / 256GB |

### Display

- 10.1" FHD (1920 x 1200) 450-nit / 850-nit TFT LCD
- Projected Capacitive Multi-Touch Screen
- Resolution: 1920 x 1200
- Maximum Color: 16.7M
- Dot Size: —
- Brightness: 450 nits (850 nits, Optional)

### Audio

- Speaker: x 1

### Physical Key

- F0 or Windows (Windows Start Key), F1 (BCR Trigger Button When BCR is enabled), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)

### Mechanical

- Color: Black & Dark Grey
- Dimension (W x H x D): 10.71" x 7.48" x 0.94" (272.0 x 190.0 x 24.0 mm)
- Gross Weight: 1.5 Kg (3.3 lbs) based on configurations

### Environmental

- Operating Temperature: -4°F ~ 122°F (-20°C ~ 50°C)
- Storage Temperature: -22°F ~ 158°F (-30°C ~ 70°C)
- Humidity: 0% ~ 90% relative humidity, non-condensing
- Environmental Sealing: IP65
- Vibration: MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)
- Drop: MIL-STD-810G-516.6 Procedure IV
- Drop height: 122cm
- Number of Drop: 26 times, for all surfaces, edges and corners
- Condition: Based on 2" plywood over concrete

### Power Supply

- AC / DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W
- Battery Life: Li-ion Battery 6-hour battery life based on test configurations
- Master Battery: Hot-swappable battery: 14.4V, 2270mAh, 32.7W
- Slave Battery: Hot-swappable battery: 14.4V, 3450mAh, 51.1W (Optional)

### Display

- LCD: 10.1" TFT-LCD Display
- Resolution: 1920 x 1200
- Maximum Color: 16.7M
- Dot Size: —
- Brightness: 450 nits (850 nits, Optional)

### Touch Screen

- Touch Type: Projected Capacitive Multi-Touch Screen (PCT)
- Light Transmission: Min. 85%
### Packing List

- RTC-1020
- 125530065A
  - AC-To-DC Power Adaptor, 19V, 65W
  - *Power cord must be purchased separately.

### Optional Accessories

- RTC-1020-BAT-000
  - Battery Pack, 14.8V, 3,450mAh, 2 pcs/Box
- 1259X00004
  - DC-To-DC Power Adaptor, Flying Wires
- 1255900901
  - DC-To-DC Power Adaptor, Cigarette Plug
- 1702031830
  - Power Cord for Japan
- 1702031831
  - Power Cord for EU
- 1702031835
  - Power Cord for UK
- 1702031836
  - Power Cord for US

### Ordering Information

<table>
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<tr>
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<th>LCD Display</th>
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<th>Expansion I/O</th>
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<th>Wi-Fi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
<th>Camera</th>
<th>2D Barcode Scanner</th>
<th>NFC</th>
<th>Battery</th>
<th>Power</th>
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</thead>
<tbody>
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<td>RTC-1020-001</td>
<td>Celeron</td>
<td>Windows 10 IOT</td>
<td>10.1&quot; 450 nits</td>
<td>PCT 10 points</td>
<td>LPDDR4X 8GB</td>
<td>M.2 64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, 4-bay Battery Charger, for 32.7W battery pack</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>No</td>
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<td>G-sensor</td>
<td>E-compass</td>
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<td>M.2 64GB</td>
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<td>E-compass</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>RTC-1020-RH0003</td>
<td>i5-1145G7E</td>
<td>Windows 10 IOT</td>
<td>10.1&quot; 850 nits</td>
<td>PCT 10 points</td>
<td>LPDDR4X 8GB</td>
<td>M.2 64GB</td>
<td>Micro-HDMI port x 1, SIM card slot x 1, LTE, GPS / Galileo / GLONASS</td>
<td>G-sensor</td>
<td>E-compass</td>
<td>Yes</td>
<td>Yes</td>
<td>—</td>
<td>—</td>
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<td>—</td>
<td></td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.

www.aaeon.com
11.6” Rugged Tablet Features Intel Kaby Lake Up To 3.9 GHz Dual Core Processor with Windows® 10

**RTC-1200**

11.6" Rugged Tablet Computers

**Features**
- 11.6" FHD (1920 x 1080) 500-nit / 850-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U up to 3.9 GHz
- One DDR4 SODIMM Socket, Up to 16GB
- One M.2 Slot for SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner / HF RFID (NFC) Reader (Optional)
- Hot-swappable Battery, 14.4V / 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, P1, P2, P3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT

**Specifications**

**Features**
- 11.6" FHD (1920 x 1080) 500-nit / 850-nit TFT LCD
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U up to 3.9 GHz
- One DDR4 SODIMM Socket, Up to 16GB
- One M.2 Slot for SSD, 64GB (Default) / 128GB / 256GB
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 5MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner / HF RFID (NFC) Reader (Optional)
- Hot-swappable Battery, 14.4V / 2270mAh, 32.7W x 2
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: Windows, Volume Up/Down, P1, P2, P3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT

**Light Sensor**
- 2MP Camera
- HF RFID
- Windows Key
- Volume Up/Down Key
- F1 BCS Trigger
- F2/F3 Programmable Function Key

**Battery Cover**
- 2MP Camera
- Flash DDR3L SODIMM x 1 or DDR4 SODIMM x 1 (Optional)
- Optional Module

**Expansion Slot**
- Mini-card slot x 1 (For LTE module)
- Docking connector x 1
- GNSS antenna Pass-through connector x 1
- WWAN antenna Pass-through connector x 1

**Barcode Scanner (Optional)**
- 2D Barcode scanner, OPTICON MDI-4100-USB (Optional)

**HF RFID (Optional)**
- ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W), ISO 14443-B (Only Read UID), Depend on card type

**Audio**
- Speaker x 1

**Physical Key**
- F0 or Windows (Windows Start Key), F1 (Ctrl+Alt+Del & BCR Trigger Button (When BCR is enabled)), F2 (Touch Mode Switch), F3 (Screenprint), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)

**Mechanical**
- Color: Gray & Black
- Dimension (W x H x D): 12.36" x 7.87" x 0.96" (310.4 mm x 200.0 mm x 24.5 mm)
- Gross Weight: 3.3 lbs (1.5 Kg)

**Environmental**
- Operating Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Temperature: -22°F ~ 158°F (-30°C ~ 70°C)
- Humidity: 5% ~ 90% relative humidity, non-condensing
- Environmental Sealing: IP65
- Vibration: MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2
- Drop: MIL-STD-810G Method 516.6 Procedure IV
  - Height of Drop: 122cm (48 inch; 4ft)
  - Number of Drop: 26 times, for all surfaces, edges and corners
  - Condition: Based on 2" plywood over concrete
- Shock: —
- ESD: Air charge: +/- 8KV, Contact charge: +/- 4KV

**Certifications and Standards**
- UL60950-1, CE/LVD: EN60950-1, CE, FCC
- Power Supply
  - AC / DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W
  - Battery Life: Li-Ion Battery 6-hour battery life based on test configurations
  - Master Battery: Hot-swapable battery; 14.4V, 2270mAh, 32.7W
  - Slave Battery: Hot-swapable battery; 14.4V, 2270mAh, 32.7W

**Display**
- LCD: 11.6" TFT-LCD Display
- Resolution: 1920 x 1080
- Maximum Color: 16.7M
- Dot Size: 0.117 (H) x 0.117 (V) mm
- Brightness: 500 nits (850 nits, Optional)
- Viewing Angle: Horizontal: 178°, Vertical: 178° (Typical)

**Touch Screen**
- Touch Type: Projected Capacitive Multi-Touch Screen (PCT)
- Light Transmission: Min. 87% (ASTM D1003; Wavelength = 550 nm)

**Expansion Slot**
- Mini-card slot x 1 (For LTE module)
- Docking connector x 1
- WWAN antenna Pass-through connector x 1

**Power Supply**
- AC / DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 19V/ 3.42A/ 65W
- Battery Life: Li-Ion Battery 6-hour battery life based on test configurations
- Master Battery: Hot-swapable battery; 14.4V, 2270mAh, 32.7W
- Slave Battery: Hot-swapable battery; 14.4V, 2270mAh, 32.7W

**Display**
- LCD: 11.6" TFT-LCD Display
- Resolution: 1920 x 1080
- Maximum Color: 16.7M
- Dot Size: 0.117 (H) x 0.117 (V) mm
- Brightness: 500 nits (850 nits, Optional)
- Viewing Angle: Horizontal: 178°, Vertical: 178° (Typical)

**Touch Screen**
- Touch Type: Projected Capacitive Multi-Touch Screen (PCT)
- Light Transmission: Min. 87% (ASTM D1003; Wavelength = 550 nm)
RTC-1200
Rugged Tablet Computers

Dimension
Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>OS</th>
<th>LCD Display</th>
<th>Touch Screen</th>
<th>System Memory</th>
<th>Storage</th>
<th>Expansion I/O</th>
<th>Sensor</th>
<th>Wi-Fi/Bluetooth</th>
<th>Navigation</th>
<th>LTE Bands (MHz)</th>
<th>Camera</th>
<th>2D Barcode Scanner</th>
<th>NFC</th>
<th>Battery</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTC-1200-RH1001</td>
<td>Celeron 3965U</td>
<td>Windows 10 IOT</td>
<td>11.6&quot; 850 nits</td>
<td>PET 10 points</td>
<td>SODIMM DDR4 AGB</td>
<td>8.2</td>
<td>4GB</td>
<td>HDMI port x 1</td>
<td>S-vision Gyro sensor light sensor</td>
<td>802.11 b/g/n</td>
<td>802.11 b/g/n</td>
<td>—</td>
<td>Front: SMP</td>
<td>—</td>
<td>Yes</td>
<td>32.7W + 32.7W</td>
</tr>
<tr>
<td>RTC-1200-RH1002</td>
<td>i3-7100U</td>
<td>Windows 10 IOT</td>
<td>11.6&quot; 850 nits</td>
<td>PET 10 points</td>
<td>SODIMM DDR4 AGB</td>
<td>8.2</td>
<td>4GB</td>
<td>HDMI port x 1</td>
<td>S-vision Gyro sensor light sensor</td>
<td>802.11 b/g/n</td>
<td>802.11 b/g/n</td>
<td>—</td>
<td>Front: SMP</td>
<td>—</td>
<td>—</td>
<td>32.7W + 32.7W</td>
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<tr>
<td>RTC-1200-RH1003</td>
<td>i3-7100U</td>
<td>Windows 10 IOT</td>
<td>11.6&quot; 850 nits</td>
<td>PET 10 points</td>
<td>SODIMM DDR4 AGB</td>
<td>8.2</td>
<td>4GB</td>
<td>HDMI port x 1</td>
<td>S-vision Gyro sensor light sensor</td>
<td>802.11 b/g/n</td>
<td>802.11 b/g/n</td>
<td>—</td>
<td>Front: SMP</td>
<td>—</td>
<td>Yes</td>
<td>32.7W + 32.7W</td>
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<tr>
<td>RTC-1200-RH1004</td>
<td>i5-7300U</td>
<td>Windows 10 IOT</td>
<td>11.6&quot; 850 nits</td>
<td>PET 10 points</td>
<td>SODIMM DDR4 AGB</td>
<td>8.2</td>
<td>4GB</td>
<td>HDMI port x 1</td>
<td>S-vision Gyro sensor light sensor</td>
<td>802.11 b/g/n</td>
<td>802.11 b/g/n</td>
<td>—</td>
<td>Front: SMP</td>
<td>—</td>
<td>Yes</td>
<td>32.7W + 32.7W</td>
</tr>
</tbody>
</table>

Optional Accessories

- RDS-241V-0000 Docking Station, W/ Stand
- RDS-241V-0001 Docking Station, W/O Stand
- RBC-1200-000 4-bay Battery Charger
- RTC-1200HSP01-000 Rotating Hand-Strap
- RTC-1200BLT01-000 Shoulder Belt
- RTC-1200BAT01-000 Battery Pack, 14.4V, 2270mAh, 2 pcs/Box
- RTC-1200BKT01-000 Mounting Bracket (VESA/RAM)
- RTC-1200-STS01-000 Passive Stylus
- RTC-1200-STS02-000 Active Stylus
- 1259X00004 DC-To-DC Power Adaptor, Flying Wires
- 1255900901 DC-To-DC Power Adaptor, Cigarette Plug
- 1702031830 Power Cord for US
- 1702031831 Power Cord for EU
- 1702031835 Power Cord for UK
- 1702031810 Power Cord for Japan

RDS-241V-0000 Docking Station, W/ Stand
RDS-241V-0001 Docking Station, W/O Stand
RBC-1200-000 4-bay Battery Charger
RTC-1200HSP01-000 Rotating Hand-Strap
RTC-1200BLT01-000 Shoulder Belt
RTC-1200BAT01-000 Battery Pack, 14.4V, 2270mAh, 2 pcs/Box
RTC-1200BKT01-000 Mounting Bracket (VESA/RAM)
RTC-1200-STS01-000 Passive Stylus
RTC-1200-STS02-000 Active Stylus
1259X00004 DC-To-DC Power Adaptor, Flying Wires
1255900901 DC-To-DC Power Adaptor, Cigarette Plug
1702031830 Power Cord for US
1702031831 Power Cord for EU
1702031835 Power Cord for UK
1702031810 Power Cord for Japan

Note: All specifications are subject to change without notice.
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*Power cord must be purchased separately.

* Small quantity MOQ may apply for optional/customized services.
10.1" Rugged Tablet Computers

Features
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Rockchip RK3399 Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB
- WiFi 802.11b/g/n, Bluetooth 5.0, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- 2D Barcode Scanner (Optional)
- HF RFID (NFC) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 10.0

Specifications

System Architecture
- Processor: Rockchip RK3399 Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
- Operating System: Android 10.0 (Will start from Android 8.1 for samples)
- Memory: Onboard LPDDR4 2GB (Default) / 4GB
- Storage: eMMC 16GB (Default) / 32GB

Display
- 10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD
- With Projected Capacitive Multi-Touch Screen

I/O Port
- Micro-HDMI port x 1
- SIM card slot x 1
- Audio jack x 1 (3.5mm)
- USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2
- DC-in jack x 1
- RS-232/422/485 COM Port x 1
- 10/100/1000 Base-T RJ45 x 1
- Mini-card Slot (For LTE)

Communication
- Wi-Fi 802.11 b/g/n, Bluetooth v5.0 (EDR + BLE)

Navigation
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)

WWAN (Optional)
- LTE via M.2 slot (For LTE module)

Camera
- 8MP front camera, MIPI UF
- 8MP rear camera with flash, MIPI VF

Sensor
- G-sensor, Gyro-sensor, Light-sensor

Expansion Slot
- Inside M.2 slot x 1, M Key (For storage or others)
- M.2 slot, B Key Slot 3042 (For LTE module)
- Docking connector: USB 2.0 x 1

Barcode Scanner (Optional)
- 2D Barcode scanner, OPTICON MDI-4100-USB (Optional)

HF RFID (Optional)
- ISO 15693 (R/W), ISO 18092 (R/W), ISO 14443-A (R/W)
- ISO 14443-B (Only Read UID), Depend on card type

Audio
- Speaker x 1

Physical Key
- F0 or Windows (TBD), F1 (BCR Trigger Butten (When BCR is enabled)), F2 (Screenprint), F3 (Audio On/Off), Volume Up (Speaker Volume Up), Volume Down (Speaker Volume Down)

Mechanical
- Color: Black & Dark Grey
- Dimension (W x H x D): 272.0 x 190.0 x 20.4 mm (10.71" x 7.48" x 0.80")
- Gross Weight: 2.2 lb (1.0 Kg) based on configurations

Environmental Sealing
- IP65

Vibration
- MIL-STD-810G-514.6 Procedure I Cat.24, Fig 514.6E-1 & 514.6E-2 (Unit is non-operating)

Drop
- MIL-STD-810G-516.6, Procedure IV
- Drop height: 122 cm
- Number of Drop: 26 times, for all surfaces, edges and corners
- Condition: Based on 2" plywood over concrete

ESD
- Air charge: +/- 8KV, Contact charge: +/- 4KV

Certifications and Standards
- UL62368-1, CE, FCC, IC

Power Supply
- AC / DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W
- Battery Life: Li-ion Battery 8-hour battery life based on test configurations
- Master Battery: Hot-swappable battery: 14.4V, 2270mAh, 32.7W
- Slave Battery: 7.4V, 1530mAh, 11.3W

Display
- LCD: 10.1" TFT-LCD Display
- Resolution: 1280 x 800
- Maximum Color: 16.7M
- Dot Size: 0.1692 (H) x 0.1692 (V) mm
- Brightness: 300 nits (800 nits, Optional)
- Viewing Angle: Horizontal: 170°, Vertical: 170° (Typical)

Touch Screen
- Touch Type: Projected Capacitive Multi-Touch Screen (PCT)
- Light Transmission: Min. 85%

Note: All specifications are subject to change without notice.
RTC-1010RK

Rugged Tablet Computers

Dimension
Unit: mm

Packing List

- RTC-1010RK
- 1255300365
  AC-To-DC Power Adaptor, 12V, 36W
- Power Cord (By Order)
  *Power cord must be purchased separately.

Optional Accessories

- RDS-411-000
  Docking Station, W/O Stand
- RDS-411-001
  Docking Station, W/ Stand
- RBC-1200-000
  4-bay Battery Charger
- RTC-1010-HS-000
  Hand Strap
- RTC-1010-SB-000
  Shoulder Belt, 2 Points
- RTC-1200BAT01-000
  Battery Pack, 14.4V, 2270mAh , 2 pcs/Box
- 170203J000
  DC Input Cable, 2 Meters, For RDS-411
- 1255900363
  DC-To-DC Power Adaptor, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Two Flying
- 1255900364
  DC-To-DC Power Adaptor, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Cigarette Plug
- 1702031802
  Power Cord for US
- 1702031803
  Power Cord for EU
- 170203180J
  Power Cord for UK
- 170203180E
  Power Cord for Japan

Ordering Information

- TBD

Note: All specifications are subject to change without notice.
Rugged Docking Station for RTC-710

Features

- Apply on RTC-710
- Front-facing I/Os: USB 2.0 x 2
- Downward-facing I/Os for Easy Cable Management: USB 3.2 Gen 1 x 2, RS-232 x 1, RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC – 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount Support (75x75)

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>I/O</th>
<th>DC Input</th>
<th>LED Indicator</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front-facing I/Os:</td>
<td>USB 2.0 x 2</td>
<td>Phoenix connector: DINKLE ECH381H-03P</td>
<td>Orange: DC in w/o Tablet</td>
<td>Anti-theft lock with key &amp; VESA mount support (75x75)</td>
</tr>
<tr>
<td>Downward-facing I/Os:</td>
<td>USB 3.2 Gen 1 x 2, RS-232 x 1, RJ45 GbE x 1</td>
<td>Wide Voltage Input: DC 9V to 36V</td>
<td>Blue: DC in w/ Tablet</td>
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</tr>
<tr>
<td>DC-in Phoenix Connector x 1</td>
<td>Phoenix connector: DINKLE EC381V-03P</td>
<td>Mating connector: DINKLE EC381V-03P</td>
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<tr>
<td>DC Input</td>
<td>Phoenix connector: DINKLE ECH381H-03P</td>
<td>Wide Voltage Input: DC 9V to 36V</td>
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<tr>
<td>DC-in Phoenix Connector</td>
<td>Mating connector: DINKLE EC381V-03P</td>
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<td></td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Orange: DC in w/o Tablet</td>
<td>Blue: DC in w/ Tablet</td>
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<tr>
<td>Others</td>
<td>Anti-theft lock with key &amp; VESA mount support (75x75)</td>
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<td></td>
</tr>
</tbody>
</table>

Mechanical

- Color: Black
- Construction: Metal
- Dimensions (W x H x D): 8.07” x 4.96” x 2.96” (205 x 126 x 75 mm)
- Gross Weight: 1.8 lb (820g)

Environmental

- Operating Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Temperature: -22°F ~ 158°F (-30°C ~ 70°C)
- ESD: Air charge: ±8 kV, Contact charge: ±4 kV
- EMC/ Safety: CE / FCC Class A / UL

Power Supply

- AC/DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P
- DC/DC Adapter: —
Ordering Information

- RDS-0710-000
  Docking Station. USBx4, RS-232, RJ45, DC Connector. 9-36V Input
- RDS-0710-001
  Docking Station. USBx4, RS-232, RJ45, DC Connector. 9-36V Input. W/ Stand

Packing List

- RDS-0710
- 125530040D
  AC-To-DC Power Adaptor, 12V, 40W
  *Power cord must be purchased separately.

Optional Accessories

- 170203J000
  DC Input Cable, 2 Meters, One Side With Mating Connector: DINKLE EC381V-03P, One Side With Flying Wires

Note: All specifications are subject to change without notice.
RDS-411
Rugged Docking Station for RTC-1010 / RTC-1010M

Features

- Apply on RTC-1010 / RTC-1010M
- Front-facing I/Os: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 2.0 x 2, RS-232 x 1 (Two: Optional), RJ45 GbE x 1, DC-in Phoenix Connector x 1
- Wide Voltage Input: 9VDC ~ 36VDC
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft Lock with Key & VESA Mount Support

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O</td>
<td>Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 2.0 x 2 RS-232 x 1 (Two: Optional) RJ45 GbE x 1</td>
</tr>
<tr>
<td>DC Input</td>
<td>Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Orange: DC in w/o Tablet Blue: DC in w/ Tablet</td>
</tr>
<tr>
<td>Others</td>
<td>Anti-theft lock with key &amp; VESA mount support</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Color: Black Construction: PC Dimensions (W x H x D): 10.08” x 7.28” x 2.96” (256 x 185 x 75 mm) Gross Weight: 6.17 lb (2.8 Kg)</td>
</tr>
<tr>
<td>Environmental</td>
<td>Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C) Storage Temperature: 14°F ~ 140°F (-10°C ~ 60°C)</td>
</tr>
<tr>
<td>ESD</td>
<td>Air charge: +/- 8KV Contact charge: +/- 4KV</td>
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<tr>
<td>EMC/Safety</td>
<td>CE / FCC Class B / UL</td>
</tr>
<tr>
<td>Power Supply</td>
<td>AC/DC Adapter: AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W DC connector: DINKLE EC381V-03P DC/DC Adapter: —</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
RDS-411

Dimension

Unit: mm

Ordering Information

- **RDS-411-000**
  Docking Station, USBx4, RS-232, RJ45, DC Connector, 9-36V Input

- **RDS-411-001**
  Docking Station, USBx4, RS-232, RJ45, DC Connector, 9-36V Input, W/ Stand

Packing List

- **RDS-411**
- **1255300040D**
  AC-To-DC Power Adaptor, 12V, 40W

*Power cord must be purchased separately.

Optional Accessories

- **170203J000**
  DC Input Cable, 2 Meters, One Side With Mating Connector: DINKLE EC381V-03P, One Side With Flying Wires.

Note: All specifications are subject to change without notice.
RDS-241V
Rugged Docking Station for RTC-1200

Features
- Apply on RTC-1200
- Front-facing I/O: USB 2.0 x 2 with Protection Cover
- Downward-facing I/Os for Easy Cable Management: USB 3.2 Gen 1 x 2, RS-232 x 2 (One with 5V in Pin 9 & the Other with GPIO x 8), RJ45 GbE x 1, M12 DC-in x 1
- Wide Voltage Input: 9VDC ~ 36VDC via M12-5P Female Connector
- Power Adaptor: AC Power Adaptor (Default)
- Anti-theft lock with Key & VESA Mount Support

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>I/O</td>
<td>Front-facing I/Os: USB 2.0 x 2 with protection cover Downward-facing I/Os: USB 3.2 Gen 1 x 2 RS-232 x 2 (One with 5V in Pin 9 &amp; the Other with GPIO x 8) RJ45 GbE x 1 M12 DC-in x 1</td>
</tr>
<tr>
<td>DC Input</td>
<td>M12 5P Female (DC 9V to 36V)</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Orange: DC in w/o Tablet Blue: DC in w/ Tablet</td>
</tr>
<tr>
<td>Others</td>
<td>Anti-theft lock with key &amp; VESA mount support</td>
</tr>
</tbody>
</table>

Mechanical
- Color: Black
- Construction: PC
- Dimension (W x H x D): 10.28” x 6.50” x 2.96” (261 x 165 x 75 mm)
- Gross Weight: 6.44 lb (2.92 Kg)

Environmental
- Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C)
- Storage Temperature: 14°F ~ 122°F (-10°C ~ 50°C)
- ESD: Air charge: +/- 8KV Contact charge: +/- 4KV
- Certifications and Standards: CE / FCC Class B / UL

Power Supply
- AC Adapter: AC 100 ~ 240 V, 47 ~ 63 Hz Output: 19V/ 4.74A/ 90W
- DC Adapter: —
## RDS-241V

### Dimension

**Unit: mm**

| RDS-241V | For RTC-1200 Series w/ Stand | Yes | USB 2.0 x 2, USB 3.2 Gen 1 x 2, RS-232 x 2, LAN x 1, DC Connector
| RDS-241V-0001 | For RTC-1200 Series w/o Stand | No | USB 2.0 x 2, USB 3.2 Gen 1 x 2, RS-232 x 2, LAN x 1, DC Connector

### Packing List

- **RDS-241V**
- **1255300008**
  - AC-To-DC Power Adaptor, 19V, 90W

  *Power cord must be purchased separately.*

### Optional Accessories

- **1702031830**
  - Power cord for USA
- **1702031831**
  - Power cord for Europe
- **1702031835**
  - Power cord for UK
- **1702031810**
  - Power cord for Japan

---

**Note:** All specifications are subject to change without notice.

www.aaeon.com
RTC-1010-HS-000
Hand Strap for RTC-1010/RTC-1010M

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>232 x 92 x 30 mm</td>
</tr>
</tbody>
</table>

Ordering Information

• RTC-1010-HS-000
  Hand Strap

RTC-1010-SB-000
Shoulder Belt for RTC-1010/RTC-1010M

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>1050 x 65 x 5 mm</td>
</tr>
</tbody>
</table>

Ordering Information

• RTC-1010-SB-000
  Shoulder Belt, 2 Points

Note: All specifications are subject to change without notice.
RTC-1010-VMP-000
VESA Mount Plate for RTC-1010M

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
</tr>
</tbody>
</table>

Ordering Information

- RTC-1010-VMP-000
  VESA Mount Plate

* This item can be applied to RTC-1010 when the bumpers on the device are removed.

1255900363
DC-To-DC Power Adapter, Flying Wires for RTC-1010/RTC-1010M

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
</tr>
</tbody>
</table>
| Dimensions (W x H x D) | Adapter case: 40 x 105 x 26.5 mm   
                            Plug side length: 1200 ± 30 mm   
                            Flying Wires side length: 600 ± 30 mm   
                            Total length: 1905 ± 60 mm |

Ordering Information

- 1255900363
  DC-To-DC Power Adapter, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Two Flying Wires

Note: All specifications are subject to change without notice.
### Specifications

**Mechanical**

<table>
<thead>
<tr>
<th>Color</th>
<th>Black</th>
</tr>
</thead>
</table>
| Dimensions (W x H x D) | Adapter case: 40 x 105 x 26.5 mm  
Plug side length: 1200 ± 30 mm  
Cigarette Plug side length: 600 ± 50 mm  
Total length: 1905 ± 50 mm |

### Ordering Information

- 1255900364

  DC-To-DC Power Adapter, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Cigarette Plug

### RTC-1200HSP01-000

Hand Strap for RTC-1200

### Specifications

**Mechanical**

<table>
<thead>
<tr>
<th>Color</th>
<th>Black</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>260 x 92 x 30 mm</td>
</tr>
</tbody>
</table>

### Ordering Information

- RTC-1200HSP01-000

  Rotating Hand-Strap
RTC-1200BLT01-000
Shoulder Belt for RTC-1200

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>1050 x 65 x 5 mm</td>
</tr>
</tbody>
</table>

Ordering Information

- RTCAE-1200BLT01-000
  Shoulder Belt, 2 Points

RTC-1200BLT02-000
Shoulder Belt for RTC-1200

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>450 x 350 x 50 mm</td>
</tr>
</tbody>
</table>

Ordering Information

- RTCAE-1200BLT02-000
  Shoulder Belt 4 Points
RTC-1010BKT-000
Bracket for RTC-1010 / RTC-1010M

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>103.1 x 228.4 x 49 mm</td>
</tr>
</tbody>
</table>

Ordering Information

• RTC-1010BKT-000
Bracket for RTC-1010 / RTC-1010M

RTC-1200BKT01-000
VESA Mount Bracket for RTC-1200

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>180 x 203.3 x 45.4 mm</td>
</tr>
</tbody>
</table>

Ordering Information

• RTC-1200BKT01-000
Mounting Bracket (VESA/RAM)
RBC-1200-000
4-bay Battery Charger for RTC-1010/ RTC-1010M, RTC-1200

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>140.5 x 68.4 x 121.87 mm</td>
</tr>
<tr>
<td>Power Supply</td>
<td></td>
</tr>
<tr>
<td>AC/DC Adapter</td>
<td>AC power input: 100-240V, 50Hz-60Hz, 65W, DC power output: 19V/3.42A</td>
</tr>
</tbody>
</table>

Ordering Information

- RBC-1200-000
  - 4-bay Battery Charger

RTC-1200BAT01-000
Battery Pack for RTC-1010/ RTC-1010M, RTC-1200

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>71.5 x 110 x 13.3 mm</td>
</tr>
<tr>
<td>Capacity</td>
<td></td>
</tr>
<tr>
<td>Capacity</td>
<td>14.4V, 2270mAh, 32.7W</td>
</tr>
</tbody>
</table>

Ordering Information

- RTC-1200BAT01-000
  - Battery Pack, 14.4V, 2270mAh, 2 pcs/Box
  * This item can be shipped by air based on dangerous goods shipment with extra shipping charge.
Shoulder Bag for RTC-1010 / RTC-1020 /RTC-1200

RTC-1010-SBG-000

Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>Bag: 330 x 245 x 50 mm</td>
</tr>
<tr>
<td></td>
<td>Shoulder strap: Length: 710 mm (Min) ~ 1310 mm (Max)</td>
</tr>
</tbody>
</table>

Ordering Information

- RTC-1010-SBG-000
  Shoulder Bag
RISC Boards
RICO-3288

Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor

Features
- Rockchip RK3288
- Onboard DDR3L 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4), eDP, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Pico-ITX (100mm x 72mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Rockchip RK3288</td>
</tr>
<tr>
<td></td>
<td>ARM Cortex™-A17 Quad-core 1.6 GHz</td>
</tr>
<tr>
<td>GPU</td>
<td>Mali-T764</td>
</tr>
<tr>
<td>Graphics</td>
<td>Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC</td>
</tr>
<tr>
<td></td>
<td>Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>Onboard DDR3L 2GB/4GB (Optional)</td>
</tr>
<tr>
<td>Storage/SSD</td>
<td>16GB eMMC and Micro-SD card</td>
</tr>
<tr>
<td>Operating System</td>
<td>Android 9.0 / Debian</td>
</tr>
<tr>
<td>Kernel</td>
<td>Kernel 4.4</td>
</tr>
<tr>
<td>Watchdog Timer</td>
<td>Integrated</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>+12V DC input, Optional 7.4V battery</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>0.68A@12V, full load, Quad-core CPU</td>
</tr>
<tr>
<td>(Typical)</td>
<td>3.94&quot; x 2.34&quot; (100mm x 72mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.44 lb (0.2 Kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32°F ~ 140°F (0°C ~ 60°C)(-20°C~60°C: Optional)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°F ~ 176°F (-40°C ~ 80°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0% ~ 90% relative humidity, non-condensing</td>
</tr>
<tr>
<td>MTBF (Hours)</td>
<td>80,000</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC</td>
</tr>
</tbody>
</table>

Display

| HDMI                    | HDMI (1.4) up to 4K x 2K @60Hz |
| eDP                     | Up to 2560 x 1440 @60Hz         |
| LVDS                    | Support 18/24-bit up to 1920 x 1080 @60Hz |
| MIPI                    | Up to 2560 x 1440 @60Hz         |

RF Function

| WiFi                    | 802.11 a/b/g/n/ac |
| BT                      | Bluetooth V4.2 + EDR |

I/O

| Ethernet               | GbE x 1 |
| USB Port               | Micro-USB OTG x 1 |
|                        | USB 2.0 Type A x 2 |
|                        | USB2.0 Pin header x 1 (Integrated) |
| Serial Port            | RS-232/422/485 x 1 |
|                        | RS-232 Pin header x 1 |
|                        | Debug port pin header x 1 |
| Audio                  | 2.5W (by 4Ω) Speaker/ Microphone/ Earphone |
| GPIO                   | 8-bit (4-in, 4-out) |
| Expansion Slot         | Full-size mini-PCIe slot x 1 (For 3G/4G card) |
| SIM Slot               | Nano-SIM |
| SD Socket              | Support Micro-SD card |
| Camera                 | --- |

Packing List

- RICO-3288
- MB Power Cable
- RTC Battery

Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1701080150</td>
<td>COM Cable, Length 15cm</td>
<td>1</td>
</tr>
<tr>
<td>125530060Y</td>
<td>12V/60W Power Adapter</td>
<td>1</td>
</tr>
<tr>
<td>9697471704-S</td>
<td>NFC Board</td>
<td>1</td>
</tr>
<tr>
<td>969747700-D</td>
<td>GPS &amp; Battery Charger Board</td>
<td>1</td>
</tr>
</tbody>
</table>
Block Diagram  Unit: mm

Dimension  Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICO-3288-A11-0001</td>
<td>ARM Cortex-A17 1.6GHz</td>
<td>2GB DDR3L</td>
<td>16GB eMMC</td>
<td>1 (RS-232)</td>
<td>1 (RS-232/422/485)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n/ac BT 4.2 + EDR</td>
<td>1 (mPCIe Slot)</td>
</tr>
<tr>
<td>RICO-3288-A11-0002</td>
<td>ARM Cortex-A17 1.6GHz</td>
<td>4GB DDR3L</td>
<td>16GB eMMC</td>
<td>1 (RS-232)</td>
<td>1 (RS-232/422/485)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n/ac BT 4.2 + EDR</td>
<td>1 (mPCIe Slot)</td>
</tr>
<tr>
<td>RICO-3288W1-A11-0001</td>
<td>ARM Cortex-A17 1.6GHz</td>
<td>2 GB DDR3L</td>
<td>16GB eMMC</td>
<td>1 (RS-232)</td>
<td>1 (RS-232/422/485)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n/ac BT 4.2 + EDR</td>
<td>1 (mPCIe Slot)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
RICO-3288MINI
Pico-ITX Fanless Board with Rockchip ARM Cortex™-A17 Quad-core Processor

Features
- Rockchip RK3288
- Onboard DDR3L 2GB
- Onboard eMMC 16GB
- HDMI (1.4): Up to 4K x 2K @ 60Hz
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- 8-bit GPIO
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>Pico-ITX (100mm x 72mm)</td>
</tr>
<tr>
<td>CPU</td>
<td>Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz</td>
</tr>
<tr>
<td>GPU</td>
<td>Mali-T764</td>
</tr>
<tr>
<td>Graphics</td>
<td>Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, AVS, VC-1, VP8, MVC Video Encode: H.264 (BP@level4.0, MP@level4.0, HP@level4.0), MVC and VP8</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>Onboard DDR3L 2GB</td>
</tr>
<tr>
<td>Storage/SSD</td>
<td>16GB eMMC</td>
</tr>
<tr>
<td>Operating System</td>
<td>Android 9.0 / Debian</td>
</tr>
<tr>
<td>Kernel</td>
<td>Kernel 4.4</td>
</tr>
<tr>
<td>Watchdog Timer</td>
<td>Integrated</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>+12V DC input</td>
</tr>
<tr>
<td>Power Consumption (Typical)</td>
<td>0.6A/12V, full load, Quad-core CPU</td>
</tr>
<tr>
<td>Dimension</td>
<td>3.94&quot; x 2.84&quot; (100mm x 72mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.22 lb (0.1 Kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32°F – 140°F (0°C – 60°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°F – 176°F (-40°C – 80°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0% – 90% relative humidity, non-condensing</td>
</tr>
<tr>
<td>MTBF (Hours)</td>
<td>80,000</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC</td>
</tr>
</tbody>
</table>

Display
- HDMI (1.4) up to 4K x 2K @ 60Hz
- eDP
- LVDS
- MIPI

RF Function
- WiFi
- BT

I/O
- GbE x 1
- Micro-USB OTG x 1
- USB 2.0 Type A x 2

Packing List
- RICO-3288MINI
- MB Power Cable
- RTC Battery

Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>125530060Y</td>
<td>12V/50W Power Adapter</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232/422/485</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICO-3288MINI-A11-0001</td>
<td>Arm Cortex-A17 1.6GHz</td>
<td>2GB DDR3L</td>
<td>16GB eMMC</td>
<td>PCIe x 1</td>
<td>—</td>
<td>3</td>
<td>1 (HDMI)</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
RICO-3399
Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>Pico-ITX</td>
</tr>
<tr>
<td>CPU</td>
<td>Rockchip RK3399, Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz</td>
</tr>
<tr>
<td>GPU</td>
<td>Mali-T864</td>
</tr>
<tr>
<td>Graphics</td>
<td>Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC</td>
</tr>
<tr>
<td></td>
<td>Video Encode: H.264 UP to H.264 level 4.1, MVC and VP8</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>Onboard LPDDR3 2GB/4GB (Optional)</td>
</tr>
<tr>
<td>Storage/SSD</td>
<td>16GB eMMC and Micro-SD card</td>
</tr>
<tr>
<td>Operating System</td>
<td>Android 8.1 / Debian</td>
</tr>
<tr>
<td>Kernel</td>
<td>Kernel 4.4</td>
</tr>
<tr>
<td>Watchdog Timer</td>
<td>Integrated</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>+12V DC input</td>
</tr>
<tr>
<td>Power Consumption (Typical)</td>
<td>0.6A@12V, full load, Hexa-core CPU</td>
</tr>
<tr>
<td>Dimension</td>
<td>3.94” x 2.84” (100 mm x 72 mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.44 lb (0.2 Kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>32°F ~ 140°F (0°C ~ 60°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°F ~ 176°F (-40°C ~ 80°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0% ~ 90% relative humidity, non-condensing</td>
</tr>
<tr>
<td>MTBF (Hours)</td>
<td>80,000</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC</td>
</tr>
</tbody>
</table>

Display

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>HDMI (2.0) up to 4K x 2K @60Hz</td>
</tr>
<tr>
<td>eDP</td>
<td>Up to 4K x 2K @60Hz</td>
</tr>
<tr>
<td>LVDS</td>
<td>—</td>
</tr>
<tr>
<td>MIPI</td>
<td>—</td>
</tr>
<tr>
<td>RF Function</td>
<td>WiFi 802.11 a/b/g/n/ac</td>
</tr>
<tr>
<td></td>
<td>BT Bluetooth V4.2 + EDR</td>
</tr>
</tbody>
</table>

I/O

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet</td>
<td>GbE x 1</td>
</tr>
<tr>
<td>USB Port</td>
<td>USB 3.2 Gen 1 Type C OTG x 1</td>
</tr>
<tr>
<td></td>
<td>USB 3.2 Gen 2 (Bottom)/USB 2.0 (Top) dual port x 1</td>
</tr>
<tr>
<td></td>
<td>USB 2.0 Pin header x 1</td>
</tr>
<tr>
<td>Serial Port</td>
<td>RS-232/422/485 x 1</td>
</tr>
<tr>
<td></td>
<td>RS-232 Pin header x 1</td>
</tr>
<tr>
<td>Audio</td>
<td>2.5W (by 4Ω) Speaker / Microphone / Earphone</td>
</tr>
<tr>
<td>GPI0</td>
<td>8-bit (4-in, 4-out)</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Full-size mini PCIe slot x 1 (For 3G/4G card)</td>
</tr>
<tr>
<td>SIM Slot</td>
<td>Nano-SIM</td>
</tr>
<tr>
<td>SD Socket</td>
<td>Support Micro-SD card</td>
</tr>
<tr>
<td>Camera</td>
<td>—</td>
</tr>
</tbody>
</table>

Packing List

- RICO-3399
- MB Power Cable
- RTC Battery

Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1701980150</td>
<td>COM Cable, Length 15cm</td>
<td>1</td>
</tr>
<tr>
<td>125530060Y</td>
<td>12V 60W Power Adapter</td>
<td>1</td>
</tr>
<tr>
<td>9697T4703-S</td>
<td>NFC Board</td>
<td>1</td>
</tr>
<tr>
<td>9697T47700-D</td>
<td>GPS &amp; Battery Charger Board</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
Block Diagram  Unit: mm

![Block Diagram](image_url)

Dimension  Unit: mm

![Dimension](image_url)

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICO-3399-A10-0001</td>
<td>ARM Dual Cortex-A72 + Quad Cortex-A53</td>
<td>2GB LPDDR3</td>
<td>16GB eMMC</td>
<td>1(GE x 1)</td>
<td>1 (RS-232)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n</td>
<td>1 (mPCIe Slot)</td>
</tr>
<tr>
<td>RICO-3399-A10-0002</td>
<td>ARM Dual Cortex-A72 + Quad Cortex-A53</td>
<td>2GB LPDDR3</td>
<td>16GB eMMC</td>
<td>1(GE x 1)</td>
<td>1 (RS-232)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n</td>
<td>—</td>
</tr>
<tr>
<td>RICO-3399-A10-0003 (MOQ: 50)</td>
<td>ARM Dual Cortex-A72 + Quad Cortex-A53</td>
<td>4GB LPDDR3</td>
<td>16GB eMMC</td>
<td>1(GE x 1)</td>
<td>1 (RS-232)</td>
<td>4</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g/n</td>
<td>1 (mPCIe Slot)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
RICO-3568
Pico-ITX Fanless Board with Rockchip ARM Cortex™-A55 Quad-core Processor

Features
- Rockchip RK3568
- NPU: 0.8 TOPS
- Onboard LPDDR4 2GB/4GB/8GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI 2.0, eDP 1.3, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V5.0
- GbE: RJ45 x 2 (One located in Daughter board)
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1, Debug Port x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1 (mSATA / USB)
- +12V DC Input
- 9-36 V Input, PoE, CAN Bus x 1, USB 2.0 x 2 via Daughter board, PER-650
- OS Support: Android 12 / Debian 10
- Small Board Size: 100mm x 80mm

Specifications

System
Form Factor  Pico-ITX Plus (100mm x 80mm)
CPU          Rockchip RK3568
             ARM Cortex™-A55 Quad-core
GPU          Mali-G52
Graphics      Video Encode: 1080P@60fps H.264/H.265
             Video Decode: 4K@60fps H.264/H.265/AV1 4K@60fps AVS2/VP9 1080P MPEG1/
             VP9
Memory Capacity Onboard LPDDR4 2GB/4GB/8GB (Optional)
Storage/SSD   16GB eMMC and Micro-SD card
             Full-size mini-PCIe slot x 1 (mSATA / USB)
Operating System Android 12
Kernel        TBD
Watchdog Timer +12V DC input
Power Requirement AT: Default, ATX: Optional
Power Consumption (Typical) TBD
Dimension      3.94” x 3.15” (100mm x 80mm)
Gross Weight   0.44 lb (0.2 Kg)
Operating Temperature 32°F ~ 140°F (0°C ~ 60°C): Normal
                    -4°F ~ 140°F (-20°C ~ 60°C): Optional
Storage Temperature -40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity 0% ~ 90% relative humidity, non-condensing
MTBF (Hours)    TBD
Certification   CE/FCC

Display
HDMI         HDMI (2.0) up to 4K x 2K @ 60Hz
eDP          eDP (1.3) up to 2560 x 1600 @ 60Hz
LVDS         Support 18/24-bit up to 1280 x 800 @ 60Hz
             JP2, 3.3V/5V LVDS Power Selection
             JP3: 5V/12V: Backlight Power Selection
             LCP Backlight connector
MIPI         MIPI Slot: MIPI x 2 up to 2048 x 1536 @ 60Hz for Dual-MIPI mode
RF Function  WiFi 802.11 a/b/g/n/ac, on board
             BT: Bluetooth V5.0 + EDRC

I/O
Ethernet      GbE x 2
             One RJ45 located in RICO-3568
             One RJ45 located in Daughter Board, T650
             Or One RJ45 located in Wide-Voltage Board, T668
USB Port      USB 3.2 Gen 1 Type C OTG x 1
             USB 3.2 Gen 1 (Bottom) / USB 2.0 (Top) Dual Port x 1
             USB 2.0 Pin header x 1 (Integrated USB, I2C x 1, 5V)
Serial Port   RS-232/422/485 x 1
             JP1, 5V/12V: RS-232/422/485 Voltage Output Selection
             RS-232 / Debug port 7-pin wafer x 1
             CN3: UART (Tx/Rx only), I2C, USB, Others
Audio         Microphone/ Earphone (3.5mm)
GPIO         GPIO x 8, 2x6 Wafer x 1
Expansion Slot Full-size mini-PCIe slot x 1 (mSATA / USB)
             Connect to Daughter board: 40-pin FPC connector x 1
SIM Slot      Nano-SIM, Push-Push type with tray
SD Socket    Micro-SD card, Push-Push type
Camera       N/A

Packing List
- RICO-3568
- MB Power Cable
- RTC Battery

Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER-650-A10</td>
<td>9-36V Input, PoE x 1, CAN Bus x 1, USB 2.0 x 2</td>
<td>1</td>
</tr>
<tr>
<td>125530060Y</td>
<td>12V/60W Power Adapter</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
Block Diagram  Unit: mm

- DC Input 12V
- Coin Battery Conn.
- PMIC RK809-5
- RTC
- LPDDR4 Memory
- eMMC
- Micro SD Socket
- USB 3.2 Gen 1 Type C OTG
- eDP Conn.
- HDMI Type A
- FPC Conn.
- LVDS Conn.
- USB Type A Dual Conn.
- RS232 Transceiver
- WiFi Module
- Audio Codec
- Ethernet PHY Transceiver
- RJ45 Conn. (Transformer)
- 8 DIO Conn. (5V/3.3V, 5V Default.)
- Integrated Conn.
- USB to RS232/422/485
- USB HUB
- D-SUB9 Connector
- Mini-PCIe Socket
- Daughter Board: PER-T650
  - 9-36 V Input, PoE x 1
  - CAN Bus x 1
  - USB 2.0 x 2

Dimension  Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>RICO-3568-A10-0001</td>
<td>ARM Cortex™-A55 Quad-core</td>
<td>2GB LPDDR4</td>
<td>16GB eMMC</td>
<td>1 (RS-232)</td>
<td>1 (RS-232/220/485)</td>
<td>4</td>
<td>1 (HDMI) 1 (VGA) 1 (LVDS) 1 (MIPI)</td>
<td>802.11 a/b/g/n/ac BT 5.0 + EDR</td>
<td>1 (PCIe Slot)</td>
</tr>
<tr>
<td>RICO-3568-A10-0002</td>
<td>ARM Cortex™-A55 Quad-core</td>
<td>4GB LPDDR4</td>
<td>16GB eMMC</td>
<td>1 (RS-232)</td>
<td>1 (RS-232/220/485)</td>
<td>4</td>
<td>1 (HDMI) 1 (VGA) 1 (LVDS) 1 (MIPI)</td>
<td>802.11 a/b/g/n/ac BT 5.0 + EDR</td>
<td>1 (PCIe Slot)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
RICO-MX8P

Pico-ITX Fanless Board with NXP i.MX 8M Plus

Features
- NXP i.MX 8M Plus
- On-board LPDDR4 2GB/4GB/8GB (Optional)
- On-board eMMC 16GB and Micro-SD Card Slot
- HDMI 2.0, LVDS, MIPI
- M.2 2230 E-Key Slot (WiFi/ BT Module, Optional)
- GbE x 2 (On-board x 1, Daughter Board x 1)
- USB 3.2 Gen 1 x 2 (Type-C OTG x 1, Type-A x 1)
- USB 2.0 x 1 (Type-A)
- RS-232/422/485 x 1, RS-232 x 1, Debug Port x 1
- 8-bit GPIO, I2C, mPCIe Slot x 1
- +12V DC Input
- 9~36V Input, PoE, CANBus x 2, USB 2.0 x 2 via PER-T650 Daughter board
- Debian 10 Support
- Small Board Size (100mm x 80mm)

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form Factor</td>
<td>Pico-ITX Plus (100mm x 80mm)</td>
</tr>
<tr>
<td>CPU</td>
<td>NXP i.MX 8M Plus Quad-Core ARM® Cortex®-A53 Processor, 1.8GHz</td>
</tr>
<tr>
<td></td>
<td>ARM® Cortex®-M7, 800MHz Processor for Low-Power Processing</td>
</tr>
<tr>
<td></td>
<td>NPU: 2.3 TOPS (Optional)</td>
</tr>
<tr>
<td>GPU</td>
<td>GC7000 UltraLite: 3D GPU (2 shaders) OpenGLES 3.1, Vulkan, OpenGLES 1.2</td>
</tr>
<tr>
<td></td>
<td>GC520L: 2D GPU</td>
</tr>
<tr>
<td>Graphics</td>
<td>Video Processing Unit (VPU):</td>
</tr>
<tr>
<td></td>
<td>• 1080p60 H.265, VP9 decoder</td>
</tr>
<tr>
<td></td>
<td>• 1080p60 H.264, VP8 decoder</td>
</tr>
<tr>
<td></td>
<td>• 1080p60 H.265, H.264 encoder</td>
</tr>
<tr>
<td>Memory Capacity</td>
<td>On-board LPDDR4 2GB/4GB/8GB (Optional)</td>
</tr>
<tr>
<td>Storage/SSD</td>
<td>16GB eMMC and Micro-SD card</td>
</tr>
<tr>
<td>Operating System</td>
<td>Debian 10</td>
</tr>
<tr>
<td>Kernel</td>
<td>Kernel 4.19 (Debian 10)</td>
</tr>
<tr>
<td>Watchdog Timer</td>
<td>Integrated</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>+12V DC Input</td>
</tr>
<tr>
<td>Power Consumption (Typical)</td>
<td>TBD</td>
</tr>
<tr>
<td>Dimension</td>
<td>3.94” x 3.15” (100mm x 80mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.44 lb. (0.2Kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-32°F – 140°F (0°C – 60°C)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40°F – 176°F (-40°C – 80°C)</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>0% – 90% relative humidity, non-condensing</td>
</tr>
<tr>
<td>MTBF (Hours)</td>
<td>TBD</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC</td>
</tr>
</tbody>
</table>

Display

| HDMI            | HDMI 2.0 (Type-A)                                                           |
| eDP             | N/A                                                                         |
| LVDS            | 4-Lane/I-Lane LVDS Interface                                                |
| MIPI            | 4-Lane MIPI CSI Interface                                                   |
| RF Function     | WiFi Supported via M.2 2230 E-Key (Optional, PCIe 3.0 [x1] [x1])            |
|                 | BT Supported via M.2 2230 E-Key (Optional, PCIe 3.0 [x1] [x1])              |
| I/O             | On-board RJ45 GbE Port x 1                                                    |
|                 | RJ45 GbE Port x 1 (via Daughter Board, T650 or T668)                        |
|                 | USB 3.2 Gen 1 x 2 (Type-C OTG x 1, Type-A x 1)                               |
|                 | USB 2.0 x 1 (Type-A)                                                         |

Packing List

- RICO-MX8P
- MB Power Cable
- RTC Battery

Optional Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER-T650-A10</td>
<td>9-36V Input, PoE x 1, CANBus x 2, USB 2.0 x 2</td>
<td>1</td>
</tr>
<tr>
<td>125530060GY</td>
<td>12V/60W Power Adaptor</td>
<td>1</td>
</tr>
<tr>
<td>12553003055</td>
<td>12V/36W Power Adaptor</td>
<td>1</td>
</tr>
<tr>
<td>9686Y00196</td>
<td>WiFi 5 Kit, Emwicon WMX6219</td>
<td>1</td>
</tr>
<tr>
<td>9686Y00170</td>
<td>WiFi 6 Kit, Intel AX210</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
**Block Diagram**  Unit: mm

- **Power Button**
- **Power LED**
- **Reset Button**
- **DC-in 12V**
- **Audio Jack**
- **PMIC and Codec**
- **Power Rail**
- **I2C**
- **I2S**
- **USB 3.0/2.0**
- **USB Type C**
- **FPC Conn. to DB (CANBUS/LAN2/9-36V Input/POE/USB2.0)**
- **MicroSD Slot**
- **Debug Conn.**
- **NXP i.MX 8M Plus**
- **USB HUB**
- **PCie 3.0**
- **HDMI Conn.**
- **LVDS Conn.**
- **GPIO**
- **8 DIO Conn. (5V/3.3V, 5V Default.)**
- **RS-232 Wafer Conn.**
- **RJ45 TSN (Transformer)**
- **Transceiver**
- **RTC IC**
- **RTC Wafer**
- **eMMC**
- **USB 2.0**
- **USB 3.2 Gen 1 x 2**
- **Mini PCIe Slot**
- **USB to UART**
- **Dual USB Type A**
- **DB9**
- **4G / LTE Module**
- **Nano SIM Slot**
- **WiFi & BT Module**
- **Via M.2 WiFi/BT module (Optional) (E Key)**
- **1 (mPCIe Slot)**
- **RICO-MX8P-A10-0001**
  - **Quad-Core ARM® Cortex®-A53, 1.6GHz**
  - **2GB LPDDR4**
  - **16GB eMMC**
  - **GbE x 1**
  - **1 (RS-232)**
  - **1 (RS-232/422/485)**
  - **USB 3.2 Gen 1 x 2**
  - **USB 2.0 x 1**
  - **HDMI 2.0 x 1**
  - **LVDS x 1**
  - **MIPI DSI x 1**
  - **Via M.2 WiFi/BT module (Optional) (E Key)**
  - **1 (mPCIe Slot)**
- **RICO-MX8P-A10-0002**
  - **Quad-Core ARM® Cortex®-A53, 1.6GHz**
  - **4GB LPDDR4**
  - **16GB eMMC**
  - **GbE x 1**
  - **1 (RS-232)**
  - **1 (RS-232/422/485)**
  - **USB 3.2 Gen 1 x 2**
  - **USB 2.0 x 1**
  - **HDMI 2.0 x 1**
  - **LVDS x 1**
  - **MIPI DSI x 1**
  - **Via M.2 WiFi/BT module (Optional) (E Key)**
  - **1 (mPCIe Slot)**

**Dimension**  Unit: mm

- **Width:** 100.00 mm
- **Depth:** 6.80 mm
- **Height:** 16.34 mm

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
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<td>1 (RS-232)</td>
<td>USB 3.2 Gen 1 x 2</td>
<td>USB 2.0 x 1</td>
<td>HDMI 2.0 x 1</td>
<td>Via M.2 WiFi/BT module (Optional) (E Key)</td>
</tr>
<tr>
<td>RICO-MX8P-A10-0002</td>
<td>Quad-Core ARM® Cortex®-A53, 1.6GHz</td>
<td>4GB LPDDR4</td>
<td>16GB eMMC</td>
<td>1 GbE x 1</td>
<td>1 (RS-232)</td>
<td>USB 3.2 Gen 1 x 2</td>
<td>USB 2.0 x 1</td>
<td>HDMI 2.0 x 1</td>
<td>Via M.2 WiFi/BT module (Optional) (E Key)</td>
</tr>
</tbody>
</table>

*Note: All specifications are subject to change without notice.*
PER-T650

I/O Module with 9V ~ 36V Input, PoE x 1, CANBus x 2, USB 2.0 x 2

Features

- POE: Supports 802.3at
- CANBus x 2 (For RICO-3568 x 1)
- Wide-Voltage Input: 9V ~ 36V
- USB 2.0 x 2
- Battery Charger (Reserved)
- Small Size: 3.9” x 3.1” (100mm x 80mm)

Ordering Information

- PER-T650-A10
  9V ~ 36V Input, PoE x 1, CANBus x 2, USB 2.0 x 2
03
03

RISC Boxes
Features
- Rockchip RK3288
- DDR3L 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0
- Compact Size (W x D x H): 103.4 mm x 96 mm x 50 mm

Specifications

<table>
<thead>
<tr>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
</tr>
<tr>
<td>GPU</td>
</tr>
<tr>
<td>Chipset</td>
</tr>
<tr>
<td>Graphics</td>
</tr>
<tr>
<td>System Memory</td>
</tr>
<tr>
<td>Display Interface</td>
</tr>
<tr>
<td>Storage/SSD</td>
</tr>
<tr>
<td>I/O</td>
</tr>
<tr>
<td>Micro-SD Card Slot x 1</td>
</tr>
<tr>
<td>HDMI (1.4) Port x 1</td>
</tr>
<tr>
<td>Antenna Connector for WiFi 802.11 b/g/n, BT V4.2</td>
</tr>
<tr>
<td>Antenna Connector for LTE (Optional)</td>
</tr>
<tr>
<td>GbE: RJ45 x 1</td>
</tr>
<tr>
<td>USB 2.0: Micro-USB OTG x 1, Type A x 2</td>
</tr>
<tr>
<td>RS-232/422/485 x 1, RS-232 x 1 (Optional)</td>
</tr>
<tr>
<td>Expansion</td>
</tr>
<tr>
<td>Indicator</td>
</tr>
<tr>
<td>OS Support</td>
</tr>
</tbody>
</table>

Power Supply
- Power Requirement: +12V DC input

Mechanical
- Mounting: VESA mount, 75mm x 75mm
- Dimension (W x D x H): 4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)
- Gross Weight: 1.1 lb (0.5 Kg)
- Net Weight: 0.66 lb (0.3 Kg)

Environmental
- Operating Temperature: 32°F – 140°F (0°C – 60°C)
- Storage Temperature: -46°F – 113°F (-40°C – 45°C)
- Storage Humidity: 0% – 90% relative humidity, non-condensing
- Anti-Vibration: —
- Certification: CE/FCC/IC
Dimension

Unit: mm

Packaging List

- BOXER-RK88
- 125530060Y
  12V / 60W Power Adapter
- 175990001X
  WiFi 2.4GHz, External Antenna
- 9741EG25G0
  EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- M04B1BX000
  Wall-mount Plate

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOXER-RK88-A11-0001</td>
<td>ARM Cortex-A17 1.6GHz</td>
<td>2GB DDR3L</td>
<td>16GB eMMC</td>
<td>GbE x 1</td>
<td>1 (RS-232/422/485)</td>
<td>3</td>
<td>1 (HDMI)</td>
<td>802.11 b/g/n</td>
<td>1 (PCI Slot)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>BT 4.2 + EDIR</td>
<td></td>
</tr>
</tbody>
</table>
**BOXER-RK99**

Fanless Embedded Box PC with Rockchip RK3399

---

### Features
- Rockchip RK3399
- LPDDR3 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 8.1
- Compact Size (W x D x H): 103.4 mm x 96 mm x 50 mm

### Specifications

#### System
- **CPU**: Rockchip RK3399
  - ARM Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
- **GPU**: Mali-T864
- **Chipset**: —
- **Graphics**: Video Decode: MPEG-1, MPEG-2, MPEG-4, H.263, H.264, H.265, VC-1, VP8, VP9, MVC
  - Video Encode: H.264 up to HP@level4.1, MVC and VP8
- **System Memory**: LPDDR3 2GB/4GB (Optional)
- **Display Interface**: HDMI (2.0) up to 4K x 2K @ 60Hz
- **Storage/SSD**: 16GB eMMC and Micro-SD card

#### I/O
- **Micro-SD Card Slot x 1**
- **HDMI (2.0) Port x 1**
- **Antenna Connector for WiFi: 802.11 b/g/n, BT V4.2**
- **Antenna Connector for LTE (Optional)**
- **GbE: RJ45 x 1**
- **USB 3.2 Gen 1: Type C OTG x 1, Type A x 1**
- **USB 2.0: Type A x 1**
- **RS-232/422/485 x 1, RS-232 x 1 (Optional)**
- **mPCIe Slot x 1 for LTE module**
- **Power LED x 1**
- **OS Support**: Android 8.1

#### Power Supply
- **Power Requirement**: +12V DC input

#### Mechanical
- **Mounting**: VESA mount, 75mm x 75mm
- **Dimension (W x D x H)**: 4.07" x 3.78" x 1.97" (103.4 mm x 96 mm x 50 mm)
- **Gross Weight**: 1.1 lb (0.5 Kg)
- **Net Weight**: 0.66 lb (0.3 Kg)

#### Environmental
- **Operating Temperature**: 32°F ~ 140°F (0°C ~ 60°C)
- **Storage Temperature**: -40°F ~ 176°F (-40°C ~ 80°C)
- **Storage Humidity**: 0% ~ 90% relative humidity, non-condensing
- **Anti-Vibration**: —
- **Certification**: CE/FCC/IC

---

Note: All specifications are subject to change without notice.
### Dimension

Unit: mm

![Dimension Diagram]

### Packing List

- **BOXER-RK99**

### Optional Accessories

- **125530060Y**
  12V / 60W Power Adapter
- **175990001X**
  WiFi 2.4GHz, External Antenna
- **9741EG25G0**
  EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- **M04BIX000**
  Wall-mount Plate

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>LAN</th>
<th>RS-232</th>
<th>USB</th>
<th>Display</th>
<th>WiFi &amp; BT</th>
<th>3G/LTE Slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOXER-RK99-A10-0001</td>
<td>ARM Dual Cortex-A72 + Quad Cortex-A53</td>
<td>2GB LPDDR3</td>
<td>16GB eMMC</td>
<td>GbE x 1</td>
<td>1 (RS-232/422/485)</td>
<td>3</td>
<td>1 (HDMI)</td>
<td>802.11 a/b/g</td>
<td>1 (mPCIe Slot)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
04

All in One Panel PC Solutions
Features

- 10.1" WXGA (1280 x 800) Color TFT LCD Display
- RockChip RK3568
- Projected Capacitive Touch Screen
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA/Panel Mount Support
- LAN x2, COM x2, USB 3.2 Gen1 Type A x2, USB 2.0 x2
- USB 3.2 Gen1 Type C x1
- HDMI x1, Audio x1
- Full Size Mini Card Expansion Slot x1
- DC 9~36V

System

- Processor: RockChip RK3568 ARM Cortex™-A55 Quad-core
- System Memory: LPDDR4 2GB/4GB (Optional)
- Ethernet: 10/100/1000 Base TX x2
- I/O Port:
  - LAN x2
  - COM x2
  - USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery)
  - USB 3.2 Gen 1 x2
  - USB 2.0 x2
  - HDMI x1
  - Audio x1
- Storage Disk Drive: 16GB eMMC and Micro-SD card
- Expansion Slot: Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)
- OS support: Android 12 / Debian

Mechanical

- Construction: Aluminum Front Bezel + Metal Chassis
- Mounting: VESA / Panel Mount
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

Environmental

- Operating Temperature: 23°F ~ 131°F (-5°C ~ 50°C) with 0.5 m/s airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 16g rms / 5 ~ 500Hz / operation
- Shock: 15 G peak acceleration (11 mec. duration)
- EMC: CE/FCC Class A Compatible

Power Supply

- DC Input: DC 9~36V

LCD

- Display Type: 10.1" WXGA (1280 x 800) Color TFT LCD Display
- Max Resolution: 1280 x 800
- Max. Colors: 262K colors (6 bit for R,G,B)
- Luminance: 300 nits
- Viewing Angle: 170° (H) ; 170° (V)
- Back Light: LED
- Back Light MTBF (Hours): 25,000 Hrs

Touchscreen

- Type: Projected Capacitive Multi-Touch
- Light Transmission: 90%

Note: All specifications are subject to change without notice.
Ordering Information

- TBD

Packing List

- ACP-1108
- TBD

Optional Accessories

- TBD

Note: All specifications are subject to change without notice.
ACP-1106

10.1” WXGA Multi-Touch Panel PC With Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM

Features
- 10.1” WXGA (1280 x 800) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/Panel Mount Support
- DC 9–30V

Specifications

System
- Processor: Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz
- Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
- System Memory: DDR3L 1866, Single Channel SODIMM x 1, Non-ECC (Max.8GB, up to 1600MHz)
- LCD/RTC controller: Integrated in processor
- Ethernet: 10/100/1000 Base-TX, RJ-45 x 2
- Bottom I/O Port: DB9 Type RS-232 x 1, USB 3.2 Gen 1 x 2, HDMI x 1, RJ-45 10/100/1000 LAN x 2, 2 Pin terminal block for power input
- Top I/O Port: Power Button x 1, Type A USB 2.0 x 1, Expansion I/O Slot
- Storage Disk Drive: Full Size mSATA x 1
- Expansion Slot: Half size mini card x 1 (Internal)
- OS support: Windows® 10, Linux Kernal 4.4.0 or higher

Mechanical
- Construction: Aluminum Front Bezel + Metal Chassis
- Mounting: VESA 75, Panel Mount
- Dimension: 10.47” x 7.24 x 1.89” (266 x 184 x 48mm)
- Carton Dimension: 13.38” x 7.64 x 9.96” (340 x 194 x 253mm)
- Gross Weight: 6.38 lb (2.9 kg)

Environmental
- Operating Temperature: 23°F ~ 122°F (-5°C ~ 50°C) with 0.5 m/s airflow
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C, non-condensing
- Vibration: 1 Gms/ 5–500Hz operation – with HDD
- Shock: —
- EMC: CE/FCC Class A

Power Supply
- DC input: DC 9–30V

LCD
- Display Type: 10.1” TFT-LCD, LED
- Max Resolution: 1280 x 800
- Max. Colors: 262K colors (6 bit for R,G,B)
- Luminance: 300 cd/m²
- Viewing Angle: 170° (H), 170° (V)
- Back Light: LED
- Back Light MTBF (Hours): —

Touch Screen
- Type: P-CAP Touchscreen
- Light Transmission: 90%

Note: All specifications are subject to change without notice.
**Ordering Information**

| Part Number | Display Type | Max Resolution | Luminance | View Angle | Backlight | MTBF | CPU | LAN | USB 3.2 Gen 1 | USB 2.0 | RS-232 | Display | Expansion | Mounting | Power | Temp. | Touch |
|-------------|--------------|----------------|-----------|------------|-----------|------|-----|-----|---------------|---------|---------|---------|------------|----------|--------|-------|-------|-------|
| ACP-1106HTT-41-1014 | 10.1" TFT-LCD | 1280 x 800 | 300 cd/m² | 170° (H)/170° (V) | 25,000 | Intel® Pentium® N4200 | 2 | 2 | 1 | 1 | 0 | Full Size mSATA x 1 | Half size mini PCIe slot x 1 | Expansion I/O window x 1 | Stand, Panel, VESA 75 | DC 9~30V | 23°F ~ 122°F (-5°C ~ 50°C) | PCAP T/S |
| ACP-1106HTT-43-1014 | 10.1" TFT-LCD | 1280 x 800 | 300 cd/m² | 170° (H)/170° (V) | 25,000 | Intel® Celeron® N3350 | 2 | 2 | 1 | 1 | 0 | Full Size mSATA x 1 | Half size mini PCIe slot x 1 | Expansion I/O window x 1 | Stand, Panel, VESA 75 | DC 9~30V | 23°F ~ 122°F (-5°C ~ 50°C) | PCAP T/S |
| ACP-1106HTT-81-1014 | 10.1" TFT-LCD | 1280 x 800 | 300 cd/m² | 170° (H)/170° (V) | 25,000 | Intel® Pentium® N4200 | 2 | 2 | 1 | 1 | 0 | Full Size mSATA x 1 | Half size mini PCIe slot x 1 with WiFi module installed | Expansion I/O window x 1 | Stand, Panel, VESA 75 | DC 9~30V | 23°F ~ 122°F (-5°C ~ 50°C) | PCAP T/S |
| ACP-1106HTT-83-1014 | 10.1" TFT-LCD | 1280 x 800 | 300 cd/m² | 170° (H)/170° (V) | 25,000 | Intel® Celeron® N3350 | 2 | 2 | 1 | 1 | 0 | Full Size mSATA x 1 | Half size mini PCIe slot x 1 with WiFi module installed | Expansion I/O window x 1 | Stand, Panel, VESA 75 | DC 9~30V | 23°F ~ 122°F (-5°C ~ 50°C) | PCAP T/S |

**Packaging List**

- Panel Mount Kit
- VESA Screws
- ACP-1106

**Optional Accessories**

- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 170203180E Power Cord (Japanese Type)
- M041073020 Stand Kit
- 9761107600 RS-232/422/485 x 2 (Expansion I/O Module)
- 9761107601 USB 2.0 x 2 (Expansion I/O Module)
- 1255300611 2 Pin 60W power adapter

**Full Size mSATA Storage Device**

- AP-SS968C008G1N Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
- AP-SS968C016G3P Full-sized, 16GB mSATA, MLC, -40°C ~ 90°C
- AP-SS968C032G3R Full-sized, 32GB mSATA, MLC, -40°C ~ 90°C
- AP-SS968C064G3F Full-sized, 64GB mSATA, MLC, -40°C ~ 90°C
- AP-SS968C129G1W Full-sized, 128GB mSATA, MLC, -40°C ~ 90°C
- 9C1256G00B Full-sized, 256GB mSATA SSD, 3D TLC, -40°C ~ 85°C
- 9C1512G004 Full-sized, 512GB mSATA SSD, 3D TLC, -40°C ~ 85°C
- 9C1101T005 Full-sized, 1TB mSATA SSD, 3D TLC, -40°C ~ 85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.
ACP-1104

10.1” WXGA Ultra-slim Fanless Multi Touch Panel PC w/ Intel® Celeron® J1900/ N2807 Processor, 2GB RAM

Features
- 10.1” WXGA (1280 x 800) Color TFT LCD Display
- Intel® Celeron® J1900/ N2807 Processor
- Aluminum Design
- P-CAP Multi-touch
- Fanless Operation
- VESA 75/ Panel Mount/ Stand Support
- IP65 Compliant Front Bezel

Specifications

| System                        | Processor          | Intel® Celeron® J1900 processor, 2 GHz
|                              | Intel® N2807 processor, 1.58 GHz |
| System Memory                | 204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 8 GB (J1900) |
|                              | 204-pin DDR3L 1333MHz SODIMM x 1, default 2 GB, up to 4 GB (N2807) |
| LCD/CRT controller           | —                   |
| Ethernet                     | 10/100/1000 Base-TX, RJ-45 x 2 |
| I/O Port                     | RS-232/422/485 x 2 ( RJ-45 connector ) |
|                              | USB 2.0 type A x 3 |
|                              | USB 2.0 Gen 1 type A x 1 |
|                              | HDMI x 1 |
|                              | DI/O (4 DI, 2 DO) BIOS selection |
|                              | Power button x 1 |
|                              | Lockable power connector x 1 |
| Storage Disk Drive           | Half size mSATA x 1 (Installation by AAEON recommended) |
| Expansion Slot               | Full size Mini-Card x 1 |
| OS support                   | Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher, Android 4.4 |

Mechanical
- Front Panel: Aluminum Design
- Mounting: VESA 75/ Panel mount/ Stand
- Dimension: 10.47” x 7.22” x 1.81” (266 x 183.5 x 30mm)
- Carton Dimension: 13.58” x 7.87” x 9.65” (345 x 200 x 245mm)
- Gross Weight: 5.5 lb (2.5 kg)

Environmental
- Operating Temperature: 32°F – 113°F (0°C – 45°C) without airflow
- Storage Temperature: -4°F – 158°F (-20°C – 70°C)
- Storage Humidity: 5%–90% @40°C, non-condensing
- Vibration: 1 G rms/ 5–500Hz operation
- Shock: 15 G peak acceleration (11 msec. duration)
- EMC: CE/FCC class A

Power Supply
- DC Input: DC 12V with lockable power adapter

LCD
- Display Type: 10.1” TFT-LCD, LED
- Max. Resolution: 1280 x 800
- Max. Colors: 262k
- Luminance: 300 cd/m²
- Viewing Angle: 170° (H), 170° (V)
- Back Light: LED
- Back Light MTBF (Hours): —

Touchscreen
- Type: Projected capacitive multi-touch
- Light Transmission: —
### All in One Panel PC Solutions: ACP Series

#### ACP-1104

**Dimension**

Unit: mm

![Dimension Diagram]

- **ACP-1104HT-T1014**
  - 10.1" TFT-LCD
  - Max. Resolution: 1280 x 800
  - Luminance: 300 cd/m²
  - View Angle: 170°(H), 170°(V)
  - MTBF: 25,000 hours
  - CPU: Intel® Celeron® J1900, 2.0 GHz
  - USB: 2 x 3
  - RAM: 2GB
  - Storage: Half size mSATA SSD
  - Temp.: 32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)
  - Touch: Projected Capacitive

- **ACP-1104HT-T1014**
  - 10.1" TFT-LCD
  - Max. Resolution: 1280 x 800
  - Luminance: 300 cd/m²
  - View Angle: 170°(H), 170°(V)
  - MTBF: 25,000 hours
  - CPU: Intel® Celeron® N2807, 1.58 GHz
  - USB: 2 x 3
  - RAM: 2GB
  - Storage: Half size mSATA SSD
  - Temp.: 32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)
  - Touch: Projected Capacitive

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight</th>
<th>MTBF</th>
<th>CPU</th>
<th>RAM</th>
<th>Display</th>
<th>Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACP-1104HT-A1-1014</td>
<td>10.1&quot; TFT-LCD</td>
<td>1280 x 800</td>
<td>300 cd/m²</td>
<td>170°(H), 170°(V)</td>
<td>25,000</td>
<td>2</td>
<td>Half size mSATA SSD</td>
<td>2GB</td>
<td>HDMI x 1</td>
<td>—</td>
<td>VESA 75/100 Stand</td>
<td>DC 12V</td>
<td>32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)</td>
<td>Projected Capacitive</td>
</tr>
<tr>
<td>ACP-1104HT-B1-1014</td>
<td>10.1&quot; TFT-LCD</td>
<td>1280 x 800</td>
<td>300 cd/m²</td>
<td>170°(H), 170°(V)</td>
<td>25,000</td>
<td>2</td>
<td>Half size mSATA SSD</td>
<td>2GB</td>
<td>HDMI x 1</td>
<td>WIFI</td>
<td>VESA 75/100 Stand</td>
<td>DC 12V</td>
<td>32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)</td>
<td>Projected Capacitive</td>
</tr>
<tr>
<td>ACP-1104HT-A3-1014</td>
<td>10.1&quot; TFT-LCD</td>
<td>1280 x 800</td>
<td>300 cd/m²</td>
<td>170°(H), 170°(V)</td>
<td>25,000</td>
<td>2</td>
<td>Half size mSATA SSD</td>
<td>2GB</td>
<td>HDMI x 1</td>
<td>—</td>
<td>VESA 75/100 Stand</td>
<td>DC 12V</td>
<td>32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)</td>
<td>Projected Capacitive</td>
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<tr>
<td>ACP-1104HT-B3-1014</td>
<td>10.1&quot; TFT-LCD</td>
<td>1280 x 800</td>
<td>300 cd/m²</td>
<td>170°(H), 170°(V)</td>
<td>25,000</td>
<td>2</td>
<td>Half size mSATA SSD</td>
<td>2GB</td>
<td>HDMI x 1</td>
<td>WiFi</td>
<td>VESA 75/100 Stand</td>
<td>DC 12V</td>
<td>32°F ~ 113°F (0°C ~ 45°C) (mSATA, w/o airflow) / 32°F ~ 122°F (0°C ~ 50°C) (mSATA, w/ airflow)</td>
<td>Projected Capacitive</td>
</tr>
</tbody>
</table>

### Packing List

- 125530606Y
  - Power Adapter, DC12V, 60W
- 170090156 x 2
  - RJ-45 to COM Cable
- VESA Mount Kit

### Optional Accessories

- 1702031802
  - Power Cord (US Type)
- 1702031803
  - Power Cord (European Type)
- 9741107300
  - Panel Mount Kit
- VESA Screws
- ACP-1104

### Half Size mSATA Storage Device:

- **AP-SS968C016G3N**
  - TF: Half-sized, 16 GB, mSATA SSD, -40°C ~ +85°C
- **968C02G9Q**
  - TF: Half-sized, 32 GB, mSATA SSD, -40°C ~ +85°C
- **AP-SS968C128G003**
  - TF: Half-sized, 64 GB, mSATA SSD, -40°C ~ +85°C
- **AP-SS968C128G1V**
  - TF: Half-sized, 128 GB, mSATA SSD, -40°C ~ +85°C
- **9C11206G002**
  - TF: Half-sized, 120GB mSATA SSD, 30 TLC, -40°C ~ +85°C
- **9C12406G001**
  - TF: Half-sized, 240GB mSATA SSD, 30 TLC, -40°C ~ +85°C
- **9C11206G002**
  - TF: Half-sized, 60GB mSATA SSD, 30 TLC, -40°C ~ +85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

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Note: All specifications are subject to change without notice.

www.aaeon.com
**ACP-1076**

7" SWXGA Multi-Touch Panel PC with Intel® Pentium® N4200/ Celeron® N3350 Processor, 4 GB RAM

### Features
- 7" WXGA (1024 x 600) Color TFT LCD Display
- Intel® Pentium® N4200/ Celeron® N3350 Processor
- Projected Capacitive Multi Touch (2 Fingers)
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA 75/ Panel Mount Support
- DC 9~30V

### Specifications

**System**
- **Processor**
  - Intel® Pentium® N4200 processor, 1.1 GHz (Quad-Core), Burst frequency 2.5GHz
  - Intel® Celeron® N3350 processor, 1.1 GHz (Dual-Core), Burst frequency 2.4GHz
- **System Memory**
  - DDR3L 1866, Single Channel SODIMM x 1, Non-ECC (Max. 8GB, up to 1600MHz)
- **Ethernet**
  - 10/100/1000 Base-TX, RJ-45 x 2
- **Bottom I/O Port**
  - DB9 Type RS-232 x 1
  - USB 3.2 Gen 1 x 2
  - HDMI x 1
  - RJ-45 10/100/1000 LAN x 2
  - 2 Pin terminal block for power input
- **Top I/O Port**
  - Power Button x 1
  - Type A USB 2.0 x 1
  - Expansion I/O Slot
- **Storage Disk Drive**
  - Full Size mSATA x 1
- **Expansion Slot**
  - Half size mini card x 1 (internal)
- **OS support**
  - Windows® 10, Linux Kernel 4.4.0 or higher

**Mechanical**
- **Construction**
  - Aluminum Front Bezel + Metal Chassis
- **Mounting**
  - VESA 75, Panel Mount
- **Dimension**
  - 7.72" x 5.28" x 1.89" (196 x 134 x 48 mm)
- **Carton Dimension**
  - 10.87" x 9.41" x 6.69" (276 x 239 x 170 mm)
- **Gross Weight**
  - 4.62 lb (2.1 Kg)

**Environmental**
- **Operating Temperature**
  - 23°F – 122°F (-5°C – 50°C) with 0.5 m/s airflow
- **Storage Temperature**
  - -4°F – 158°F (-20°C – 70°C)
- **Storage Humidity**
  - 90% @40°C; non-condensing
- **Vibration**
  - 1 G rms/ 5~500Hz (operation – with HDD)
- **Shock**
  - 15 G peak acceleration (11 msec. duration) – with HDD
- **EMC**
  - CE/FCC Class A

**Power Supply**
- **DC input**
  - DC 9~30V

**LCD**
- **Display Type**
  - 7" TFT-LCD, LED
- **Max Resolution**
  - 1024 x 600
- **Max. Colors**
  - 16.7M
- **Luminance**
  - 320 cd/m²
- **Viewing Angle**
  - 150° (H), 145° (V)
- **Back Light**
  - LED
- **Back Light MTBF (Hours)**
  - 20,000

**Touch Screen**
- **Type**
  - P-CAP Touchscreen
- **Light Transmission**
  - 90%

Note: All specifications are subject to change without notice.
Dimension
Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight</th>
<th>MTBF</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2</th>
<th>USB 2.0</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACP-1076HTT-A1-1014</td>
<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150 (H)/145 (V)</td>
<td>20,000</td>
<td>Intel® Pentium N4200</td>
<td>2 2 1 1 0</td>
<td>Full Size mSATA x 1</td>
<td>4GB DDR3L RAM Included</td>
<td>HDMI x 1</td>
<td>Half-size mini PCIe slot x 1</td>
<td>Expansion I/O window x 1</td>
<td>DC 9~30V</td>
<td>23°F ~ 122°F</td>
<td>-5°C ~ 50°C</td>
<td>PCAP T/S</td>
<td></td>
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<tr>
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<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150 (H)/145 (V)</td>
<td>20,000</td>
<td>Intel® Celeron N3350</td>
<td>2 2 1 1 0</td>
<td>Full Size mSATA x 1</td>
<td>4GB DDR3L RAM Included</td>
<td>HDMI x 1</td>
<td>Half-size mini PCIe slot x 1</td>
<td>Expansion I/O window x 1</td>
<td>DC 9~30V</td>
<td>23°F ~ 122°F</td>
<td>-5°C ~ 50°C</td>
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<td></td>
</tr>
<tr>
<td>ACP-1076HTT-B1-1014</td>
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<td>DC 9~30V</td>
<td>23°F ~ 122°F</td>
<td>-5°C ~ 50°C</td>
<td>PCAP T/S</td>
<td></td>
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</tr>
</tbody>
</table>

Packaging List

- Panel Mount Kit
- VESA Screws
- ACP-1076

Optional Accessories

- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- MO41073020
  Stand Kit
- 9761107600
  RS-232/422/485 x 2 (Expansion I/O Module)
- 9761107601
  USB 2.0 x 2 (Expansion I/O Module)
- 1255300611
  2 Pin 60W power adapter

Full Size mSATA Storage Device:

- AP-SS968C008G1N
  Full-sized, 8GB mSATA, MLC, -40°C ~ 85°C
- AP-SS968C016G3P
  Full-sized, 16GB mSATA, MLC, -40°C ~ 85°C
- AP-SS968C032G3R
  Full-sized, 32GB mSATA, MLC, -40°C ~ 85°C
- AP-SS968C064G3F
  Full-sized, 64GB mSATA, MLC, -40°C ~ 85°C
- AP-SS968C128G1W
  Full-sized, 128GB mSATA, MLC, -40°C ~ 85°C
- 9C1256G00B
  Full-sized, 256GB mSATA SSD, 3D TLC, -40°C ~ 85°C
- 9C1512G004
  Full-sized, 512GB mSATA SSD, 3D TLC, -40°C ~ 85°C
- 9C1001T005
  Full-sized, 1TB mSATA SSD, 3D TLC, -40°C ~ 85°C
  Note: AAEON factory-installed mSATA HDD is strongly recommended.
# ACP-1074

7” Ultra-Slim Fanless Multi-Touch Panel PC with Intel® Celeron® J1900/N2807, 2GB RAM

## Features
- 7” WSVGA (1024 x 600) Color TFT LCD Display
- Intel® N2807/J1900 Processor
- Wide Flatscreen with P-CAP Multi-Touch (2-point)
- 7H Anti-scratch Surface
- Aluminum Design
- IP65 Compliant
- Fanless Operation
- VESA 75/Panel Mount/Stand Support

## System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® N2807 processor, 1.58 GHz</td>
</tr>
<tr>
<td></td>
<td>Intel® Celeron® J1900 processor, 2 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>204-Pin DDR3L SODIMM x 1, default 2GB, up to 8 GB (J1900)</td>
</tr>
<tr>
<td></td>
<td>204-Pin DDR3L SODIMM x 1, default 2GB, up to 4 GB (N2807)</td>
</tr>
<tr>
<td>LCD/CRT controller</td>
<td>Integrated in processor</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10/100/1000 Base-TX, RJ-45 x 2</td>
</tr>
<tr>
<td>I/O Port</td>
<td>RJ-45 type RS-232/422/485 x 2</td>
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<tr>
<td></td>
<td>USB 2.0 x 3</td>
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<tr>
<td></td>
<td>USB 3.2 Gen 1 x 1</td>
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<tr>
<td></td>
<td>HDMI x 1</td>
</tr>
<tr>
<td></td>
<td>DIO/4DI, 2DO, BIOS Selection</td>
</tr>
<tr>
<td></td>
<td>Lockable power input connector</td>
</tr>
<tr>
<td></td>
<td>Power switch x 1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>Half size mSATA storage x 1 (Installation by AAEON recommended)</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Full size Mini-Card x 1</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows® 7, Windows® 8.1, Windows® 10, Linux kernel 2.6.3 or higher</td>
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</table>

## Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Aluminum Design</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 75/Panel mount/Stand</td>
</tr>
<tr>
<td>Dimension</td>
<td>7.71” x 5.27” x 1.18” (196mm x 134mm x 30mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>13.58” x 7.87” x 9.64” (345mm x 200mm x 245mm)</td>
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<tr>
<td>Gross Weight</td>
<td>5.5 lb (2.5 kg)</td>
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## Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>32°F ~ 122°F (0°C ~ 50°C) without airflow</td>
</tr>
<tr>
<td></td>
<td>23°F ~ 131°F (-5°C ~ 55°C) with airflow</td>
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<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
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<tr>
<td>Storage Humidity</td>
<td>5%~90% @40°C, non-condensing</td>
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<tr>
<td>Vibration</td>
<td>1 Gms/ 5~ 500Hz/ operation – with HDD</td>
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<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
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<tr>
<td>EMC</td>
<td>CE/FCC class A</td>
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## Power Supply

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Input</td>
<td>DC12V, with lockable power adapter</td>
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## LCD

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Display Type</td>
<td>7” TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1024 x 600</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Luminance</td>
<td>320 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>150° (H), 145° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (Hours)</td>
<td>20,000</td>
</tr>
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</table>

## Touchscreen

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Projected capacitive multi-touch (2-point)</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
</tbody>
</table>
### All in One Panel PC Solutions: ACP Series

#### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight</th>
<th>MTBF</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>USB 2.0</th>
<th>RS-232</th>
<th>RS-422/485</th>
<th>Storage RAM</th>
<th>Display Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACP-1074HTT-A1-1013</td>
<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150°(H)/145°(V)</td>
<td>20,000</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>Half Size mSATA</td>
<td>x 1</td>
<td>20 GDDR3L RAM</td>
<td>Include</td>
<td>VGA</td>
<td>1</td>
<td>Panel Mount/ VESA 75/ Stand</td>
<td>DC 12V</td>
</tr>
<tr>
<td>ACP-1074HTT-A3-1013</td>
<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150°(H)/145°(V)</td>
<td>20,000</td>
<td>Intel® N2807, 1.58 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>Half Size mSATA</td>
<td>x 1</td>
<td>20 GDDR3L RAM</td>
<td>Include</td>
<td>VGA</td>
<td>1</td>
<td>Panel Mount/ VESA 75/ Stand</td>
<td>DC 12V</td>
</tr>
<tr>
<td>ACP-1074HTT-B1-1013</td>
<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150°(H)/145°(V)</td>
<td>20,000</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>Half Size mSATA</td>
<td>x 1</td>
<td>20 GDDR3L RAM</td>
<td>Include</td>
<td>VGA</td>
<td>1</td>
<td>WiFi Panel Mount/ VESA 75/ Stand</td>
<td>DC 12V</td>
</tr>
<tr>
<td>ACP-1074HTT-B3-1013</td>
<td>7&quot; TFT-LCD</td>
<td>1024 x 600</td>
<td>320 cd/m²</td>
<td>150°(H)/145°(V)</td>
<td>20,000</td>
<td>Intel® N2807, 1.58 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>Half Size mSATA</td>
<td>x 1</td>
<td>20 GDDR3L RAM</td>
<td>Include</td>
<td>VGA</td>
<td>1</td>
<td>WiFi Panel Mount/ VESA 75/ Stand</td>
<td>DC 12V</td>
</tr>
</tbody>
</table>

#### Half Size mSATA Storage Device:

- 968C008G1M (TF) Half-sized, mSATA SSD, MLC, -40°C ~ +85°C
- AP-SS968C016G3N (TF) Half-sized, 16 GB, mSATA SSD, MLC, -40°C ~ +85°C
- 968C032G3Q (TF) Half-sized, 32 GB, mSATA SSD, MLC, -40°C ~ +85°C
- AP-SS9C1064G003 (TF) Half-sized, 64 GB, mSATA SSD, MLC, -40°C ~ +85°C
- 9C1060G002 (TF) Half-sized, 60 GB, mSATA SSD, 3D TLC, -40°C ~ +85°C
- 9C1120G002 (TF) Half-sized, 120 GB, mSATA SSD, 3D TLC, -40°C ~ +85°C
- 9C1240G001 (TF) Half-sized, 240 GB, mSATA SSD, 3D TLC, -40°C ~ +85°C
- 9C1240G1V (TF) Half-sized, 240 GB, mSATA SSD, 3D TLC, -40°C ~ +85°C

Note: AAEON factory-installed mSATA HDD is strongly recommended.

#### Optional Accessories

- 125530060Y Lockable Power Adapter
- 170090156 x 2 RJ-45 to COM Cable
- VESA Mount Kit
- Panel Mount Kit
- VESA Screws
- ACP-1074

- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (Japanese Type)
- MD04173020 Stand Kit
OMNI-2155-CML

15.6” HMI Panel PC with 10th Generation Intel® Core™ / Celeron® Processor

Features
- 15.6” (1366 x 768) TFT LCD Display
- Extreme Computing Power & Graphic Display Capability
- DDR4 slot x 2, up to 64GB
- Support High Speed NVMe storage (M.2 2280)
- GbE LAN x 2, RS232/422/485 x 2
- USB 3.2 Gen2 x 4
- Supports Intel® AMT
- Wide Range 10-35V DC input
- 0 – 45°C Operating Temperature

Specifications

System
- Processor
  - Intel® Core™ i9-10900TE
  - Intel® Core™ i7-10700TE
  - Intel® Core™ i5-10500TE
  - Intel® Core™ i3-10100TE
  - Intel® Celeron® G5900TE
- System Memory
  - DDR4 SO-DIMM x 2, up to 64GB
- LCD/CRT Controller
- Ethernet
  - Intel® i211 x 1, i219 x 1
- I/O Port
  - USB 3.2 Gen 2 x 4
  - RJ-45 x 2 for GbE LAN (i211-AT x 1, i219-LM x 1)
  - HDMI x 1
- Power Supply
  - DC input 10-35V DC-in with 3-pin terminal block

Mechanical
- Construction
  - Aluminum Design (IP65 Front Frame)
- Mounting
  - VESA 100 / Panel Mount
- Dimension
  - 420.14mm x 264.47mm x 73.2 mm
- Carton Dimension
  - 530mm x 445mm x 200mm
- Gross Weight
  - 6.75 kg

Environmental
- Operating Temperature
  - 32°F – 113°F (0°C – 45°C) (35W CPU), according to IEC68-2-14 with 0.5 m/s AirFlow
- Storage Temperature
  - -4°F – 158°F (-20°C – 70°C)
- Storage Humidity
  - 90% @40°C, non-condensing
- Vibration
  - 1 Grms/5~500Hz/random operation
- Shock
  - 15 G peak acceleration (11 msec. duration)
- EMC
  - CE/FCC class A

Power Supply
- DC input
  - 10-35V DC-in with 3-pin terminal block

LCD
- Display Type
  - 15.6” TFT-LCD, LED
- Max Resolution
  - 1366 (H) x 768 (V)
- Max. Colors
  - 16.7M (8 bit/color)
- Luminance
  - 400 cd/m²
- Viewing Angle
  - 170° (H), 130° (V)
- Back Light
  - LED
- Back Light MTBF (Hours)
  - 50,000

Touchscreen
- Type
  - Flat 5-wire Resistive / P-CAP Multi Touch
- Light Transmission
  - 80% ± 3% / 88%/± 2%

Note: All specifications are subject to change without notice.
OMNI-2155-CML

All in One Panel PC Solutions: OMNI Series

Dimension

Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 2</th>
<th>RS-232</th>
<th>RS-485/422/323</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-2155HTT-CML-A2-1010</td>
<td>15.6” TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>170°(H) 150°(V)</td>
<td>50,000</td>
<td>Intel® Core™ i9-10900TE</td>
<td>—</td>
<td>4</td>
<td>—</td>
<td>2</td>
<td>M.2 2280-64GB</td>
<td>—</td>
<td>—</td>
<td>HDMI x 1</td>
<td>M.2 2230 6 Key x 1</td>
<td>VESA 150</td>
<td>10-35V DC</td>
<td>—</td>
</tr>
</tbody>
</table>

Packing List

- Phoenix Power Connector x 1
- OMNI-2155-CML x 1

Optional Accessories

- AP-0T9789LA1000
  LCD Monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- 125590120B
  120W Power Adapter
- 1255302300
  230W Power Adapter

Note: All specifications are subject to change without notice.
ACP-1105 PRELIMINARY

10.1” WXGA Open-frame Panel PC with PICO-APL3

Features
- 10.1” WXGA (1280 x 800) Color TFT LCD Display
- PICO-APL3
- Projected Capacitive Touch Screen
- Fanless System
- Onboard DDR3L 2GB (Optional to 4GB)
- OnBoard Storage eMMC 32GB (Optional to 16GB/64GB)
- LAN x1, COM x1, USB 3.2 Gen Type A x2, USB 2.0 x1
- HDMI x1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- DC 12V

**System**
- Processor: Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC
- System Memory: LPDDR4 2GB/4GB (Optional)
- LCD/CRT controller: —
- Ethernet: 10/100/1000 Base TX x1
- I/O Port: LAN x1, COM x1, USB 3.2 Gen 1 x2, USB 2.0 x1, HDMI x1
- Storage Disk Drive: Onboard 32GB eMMC (16 GB/64GB Optional)
- Expansion Slot: M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- OS support: Windows 10 (64 Bit)

**Mechanical**
- Construction: SECC
- Mounting: —
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

**Environmental**
- Operating Temperature: 32°F–104°F (0°C ~ 40°C) with 0.5 m/s airflow
- Storage Temperature: 32°F–113°F (0°C ~ 45°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: —
- Shock: —
- EMC: —

**Power Supply**
- DC Input: DC 12V

**LCD**
- Display Type: 10.1” WXGA (1280 x 800) Color TFT LCD Display
- Max Resolution: 1280 x 800
- Max. Colors: 262K colors (6 bit for R,G,B)
- Luminance: 300 nits
- Viewing Angle: 170° (H) ; 170° (V)
- Back Light: LED
- Back Light MTBF (Hours): 25,000 Hrs

**Touchscreen**
- Type: Projected Capacitive Multi-Touch
- Light Transmission: 90%

Optional Accessories
- TBD

Packing List
- TBD

Ordering Information
- TBD

Note: All specifications are subject to change without notice.
### Features
- 7” WSVGA (1024 x 600) Color TFT LCD Display
- RICO-3568
- Projected Capacitive Touch Screen
- IP65 Compliant Aluminum Front Bezel
- Fanless System
- VESA/Panel Mount Support
- LAN x2, COM x2, USB 3.2 Gen1 Type A x2, USB 2.0 x2
- USB 3.2 Gen1 Type C x1
- HDMI x1, Audio x1
- Full Size Mini Card Expansion Slot x1
- DC 9–36V

### System

<table>
<thead>
<tr>
<th>Processor</th>
<th>RockChipRK3568 ARM Cortex™-A55 Quad-core</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory</td>
<td>LPDDR4 2GB/4GB (Optional)</td>
</tr>
<tr>
<td>LCD/CRT controller</td>
<td>—</td>
</tr>
<tr>
<td>Ethernet</td>
<td>10/100/1000 Base TX x2</td>
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<tr>
<td>I/O Port</td>
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<tr>
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<td>LAN x2</td>
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<tr>
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<td>COM x2</td>
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<td>USB 3.2 Gen 1 Type C OTG x 1 (For System Recovery)</td>
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<td>USB 3.2 Gen 1 x2</td>
</tr>
<tr>
<td></td>
<td>USB 2.0 x2</td>
</tr>
<tr>
<td></td>
<td>HDMI x 1</td>
</tr>
<tr>
<td></td>
<td>Audio x1</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>16GB eMMC and Micro-SD card</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Full-size mini-PCIe slot x 1 (PCIe 3.0 x 1 or mSATA)</td>
</tr>
<tr>
<td>OS support</td>
<td>Android 12 / Debian</td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Construction</th>
<th>Aluminum Front Bezel + Metal Chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>VESA / Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>TBD</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>TBD</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>TBD</td>
</tr>
</tbody>
</table>

### Environmental

| Operating Temperature | -5°C ~ 50°C with 0.5 m/s airflow |
| Storage Temperature   | -20°C~60°C                         |
| Storage Humidity      | 90% @40°C; non-condensing          |
| Vibration             | 1Grms / 5–500Hz / operation        |
| Shock                 | 15 G peak acceleration (11 msec. duration) |
| EMC                   | CE/FCC Class A Compatible          |

### Power Supply

| DC Input            | DC 9–36V                              |

### LCD

<table>
<thead>
<tr>
<th>Display Type</th>
<th>7” WSVGA (1024 x 600) Color TFT LCD Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Resolution</td>
<td>1024 x 600</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M</td>
</tr>
<tr>
<td>Luminance</td>
<td>320 nits</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>145° (H) ; 150° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (Hours)</td>
<td>20,000 Hrs</td>
</tr>
</tbody>
</table>

### Touchscreen

<table>
<thead>
<tr>
<th>Type</th>
<th>Projected Capacitive Multi-Touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
</tbody>
</table>

---

**Note:** All specifications are subject to change without notice.

**Optional Accessories**
- TBD

**Packing List**
- TBD

**Ordering Information**
- TBD
ACP-1075 PRELIMINARY

7” WSVGA Open-frame Panel PC with PICO-APL3

Launching in Q1

Features
- 7” WSVGA (1024 x 600) Color TFT LCD Display
- PICO-APL3
- Projected Capacitive Touch Screen
- Fanless System
- Onboard DDR3L 2GB (Optional to 4GB)
- OnBoard Storage eMMC 32GB (Optional to 16GB/64GB)
- LAN x1, COM x1, USB 3.2 Gen1 Type A x2, USB 2.0 x1
- HDMI x1
- M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- DC 12V

System
- Processor: Intel® Pentium® N4200/ Celeron® N3350/ Atom™ Processor SoC
- System Memory: LPDDR4 2GB/4GB (Optional)
- LCD/CRT controller: —
- Ethernet: 10/100/1000 Base TX x1
- I/O Port: LAN x1, COM x1, USB 3.2 Gen 1 x2, USB 2.0 x1, HDMI x1
- Storage Disk Drive: Onboard 32GB eMMC (16 GB/64GB Optional)
- Expansion Slot: M.2 B Key (2280) x 1, M.2 E Key (2230) x 1
- OS support: Windows 10(64 Bit)

Mechanical
- Construction: SECC
- Mounting: —
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

Environmental
- Operating Temperature: 32°F~104°F (0°C ~ 40°C) with 0.5 m/s airflow
- Storage Temperature: 32°F~113°F(0°C~45°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: —
- Shock: —
- EMC: —

Power Supply
- DC Input: DC 12V

LCD
- Display Type: 7” WSVGA (1024 x 600) Color TFT LCD Display
- Max Resolution: 1024 x 600
- Max. Colors: 16.7M
- Luminance: 320 nits
- Viewing Angle: 145° (H) ; 150° (V)
- Back Light: LED
- Back Light MTBF (Hours): 20,000 Hrs

Touchscreen
- Type: Projected Capacitive Multi-Touch
- Light Transmission: 90%

Optional Accessories
- TBD

Packing List
- TBD

Ordering Information
- TBD

Note: All specifications are subject to change without notice.
OMNI Series: Modular Builder
Refer to the product introduction on page 00-25 to learn how to order
OMNI Series : Modular Builder - Panel Kit

OMNI-215D

15.6" OMNI Modular Touch/ LCD Panel Kit

Features

- 15.6" (1366 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mechanical</td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>16.54&quot; x 10.39&quot; x 1.14&quot; (420mm x 264mm x 29mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.47&quot; x 17.13&quot; x 7.09&quot; (520mm x 435mm x 180mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>11 lb (5 kg)</td>
</tr>
<tr>
<td>Environmental</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14°F – 131°F (-10°C – 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F – 158°F (-20°C – 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @ 40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 G rms/ 5 - 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC Class A</td>
</tr>
<tr>
<td>Power Supply</td>
<td></td>
</tr>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
<tr>
<td>LCD</td>
<td></td>
</tr>
<tr>
<td>Display Type</td>
<td>15.6&quot; TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1366 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>400 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>160° (H), 140° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
<tr>
<td>Touch Screen</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/USB Type Touch</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
**OMNI-215D**

**OMNI Series : Modular Builder - Panel Kit**

**Dimension**
**Unit: mm**

- **OMNI-215DHTT-KIT-A1-1011**
  - 15.6" TFT-LCD
  - 1366 x 768
  - 400 cd/m²
  - 160(H), 140(V)
  - 50,000
  - -10°C ~ 55°C
  - Full Flat Resistive Touch Screen
  - Support OMNI CPU BOX kit

- **OMNI-215DHTT-KIT-A2-1011**
  - 15.6" TFT-LCD
  - 1366 x 768
  - 400 cd/m²
  - 160(H), 140(V)
  - 50,000
  - -10°C ~ 55°C
  - Projective Capacitive Touch
  - Support OMNI CPU BOX kit

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**Note:** All specifications are subject to change without notice.

www.aaeon.com
OMNI-221D

21.5” OMNI Modular Touch/ LCD Panel Kit

Features
- 21.5” (1920 x 1080) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>21.61” x 14.65” x 0.87” (549mm x 372mm x 22mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>26.38” x 7.87” x 20.67” (670mm x 200mm x 525mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>11 lb (5 kg)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Gm/s/ 5 ~ 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC Class A</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
</tr>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
<tr>
<td><strong>LCD</strong></td>
<td></td>
</tr>
<tr>
<td>Display Type</td>
<td>21.5” TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>250 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>178° (H), 178° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/USB Type Touch</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI Series: Modular Builder - Panel Kit

OMNI-221D

Dimension

Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-221DHTT-KIT-A1-1011</td>
<td>21.5” TFT-LCD</td>
<td>1920 x 1080</td>
<td>250 cd/m²</td>
<td>178(H), 178(V)</td>
<td>50,000</td>
<td>-10°C – 55°C</td>
<td>Full Flat Resistive Touch Screen</td>
<td>Support OMNI CPU BOX kit</td>
</tr>
<tr>
<td>OMNI-221DHTT-KIT-A2-1012</td>
<td>21.5” TFT-LCD</td>
<td>1920 x 1080</td>
<td>250 cd/m²</td>
<td>178(H), 178(V)</td>
<td>50,000</td>
<td>-10°C – 55°C</td>
<td>Projective Capacitive Touch</td>
<td>Support OMNI CPU BOX kit</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
### Features
- 10.4" (800 x 600) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>11.02&quot; x 9.41&quot; x 1.1&quot; (280mm x 239mm x 28mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>16.34&quot; x 7.05&quot; x 1.539&quot; (415mm x 179mm x 391mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>3.08 lb (1.4 kg)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Gms/ 5 ~ 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
</tr>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
<tr>
<td><strong>LCD</strong></td>
<td></td>
</tr>
<tr>
<td>Display Type</td>
<td>10.4&quot; TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>800 x 600</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>230 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>120° (H), 100° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/ USB Type Touch</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
**OMNI Series : Modular Builder - Panel Kit**

**Dimension**

Unit: mm

---

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-310DHTT-KIT-A1-1011</td>
<td>10.4&quot; TFT-LCD</td>
<td>800 x 600</td>
<td>230 cd/m²</td>
<td>120(H), 100(V)</td>
<td>50,000</td>
<td>-10°C ~ 55°C</td>
<td>Full Flat Resistive Touch Screen</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
<tr>
<td>OMNI-310DHTT-KIT-A2-1011</td>
<td>10.4&quot; TFT-LCD</td>
<td>800 x 600</td>
<td>230 cd/m²</td>
<td>120(H), 100(V)</td>
<td>50,000</td>
<td>-10°C ~ 55°C</td>
<td>Projective Capacitive Touch</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
</tbody>
</table>
## Features
- 12.1" (1024 x 768) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

## Specifications
### Mechanical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>12.95&quot; x 11.34&quot; x 0.98&quot; (329mm x 288mm x 25mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.87&quot; x 17.52&quot; x 7.87&quot; (530mm x 445mm x 200mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>4.4 lb (2 kg)</td>
</tr>
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### Environmental

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Grms/ 5~ 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC Class A</td>
</tr>
</tbody>
</table>

### Power Supply

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
</tbody>
</table>

### LCD

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Type</td>
<td>12.1&quot; TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>500 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>160° (H), 160° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
</tbody>
</table>

### Touch Screen

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/USB Type Touch</td>
</tr>
</tbody>
</table>
## OMNI Series : Modular Builder - Panel Kit

### OMNI-312DHTT-KIT-A1-1011
- **Part Number**: OMNI-312DHTT-KIT-A1-1011
- **Display Type**: 12.1" TFT-LCD
- **Max Resolution**: 1024 x 768
- **Luminance**: 500 cd/m²
- **View Angle**: 160(H), 160(V)
- **Backlight MTBF (Hours)**: 50,000
- **Temp.**: -10°C ~ 55°C
- **Touch**: Full Flat Resistive Touch Screen
- **Other**: Support OMNI CPU BOX kit

### OMNI-312DHTT-KIT-A2-1011
- **Part Number**: OMNI-312DHTT-KIT-A2-1011
- **Display Type**: 12.1" TFT-LCD
- **Max Resolution**: 1024 x 768
- **Luminance**: 500 cd/m²
- **View Angle**: 160(H), 160(V)
- **Backlight MTBF (Hours)**: 50,000
- **Temp.**: -10°C ~ 55°C
- **Touch**: Projective Capacitive Touch
- **Other**: Support OMNI CPU BOX kit

Note: All specifications are subject to change without notice.
OMNI-315D
15” OMNI Modular Touch/ LCD Panel Kit

Features
■ 15” (1024 x 768) OMNI Modular Touch/ LCD Kit
■ Supports Projected Capacitive Multi Touch or Resistive Touch Screen
■ IP65 Compliant Aluminum Front Bezel

Specifications

| Features |  
| --- | --- |
| Mechanical |  
| Construction | Aluminum Front Bezel |
| Mounting | Panel Mount |
| Dimension | 14.53” x 12.36” x 1.06” (369mm x 314mm x 27mm) |
| Carton Dimension | 20.08” x 9.84” x 18.11” (510mm x 250mm x 460mm) |
| Gross Weight | 11.66 lb (5.3 kg) |
| Environmental |  
| Operating Temperature | 14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow |
| Storage Temperature | -4°F ~ 158°F (-20°C ~ 70°C) |
| Storage Humidity | 90% @40°C; non-condensing |
| Vibration | 1 Gms/ 5~ 500Hz/ operation – with HDD |
| Shock | 15G peak acceleration (11 msec. duration) – with HDD |
| EMC | CE/FCC Class A |
| Power Supply |  
| DC input | — |
| LCD |  
| Display Type | 15” TFT-LCD, LED |
| Max Resolution | 1024 x 768 |
| Max. Colors | 16.2M (8bit/color) |
| Luminance | 300 cd/m² |
| Viewing Angle | 176° (H), 176° (V) |
| Back Light | LED |
| Back Light MTBF (hours) | 70,000 |
| Touch Screen |  
| Type | P-CAP/ Full-flap resistive |
| Light Transmission | 90% |
| Others | 1. Connect with OMNI-Box Kit |
|  | 2. Connect with LVDS/USB Type Touch |

Note: All specifications are subject to change without notice.
OMNI Series: Modular Builder - Panel Kit

Dimension
Unit: mm

OMNI-315DHTT-KIT-A1-1012
15" TFT-LCD
1024 x 768
300 cd/m²
176° (H), 176° (V)
70,000
-10°C ~ 55°C
Full Flat Resistive Touch Screen
Support OMNI CPU BOX Kit

OMNI-315DHTT-KIT-A2-1012
15" TFT-LCD
1024 x 768
300 cd/m²
176° (H), 176° (V)
70,000
-10°C ~ 55°C
Projective Capacitive Touch
Support OMNI CPU BOX Kit

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-315DHTT-KIT-A1-1012</td>
<td>15&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>70,000</td>
<td>-10°C ~ 55°C</td>
<td>Full Flat Resistive Touch Screen</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
<tr>
<td>OMNI-315DHTT-KIT-A2-1012</td>
<td>15&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>70,000</td>
<td>-10°C ~ 55°C</td>
<td>Projective Capacitive Touch</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
### OMNI-317D

17” OMNI Modular Touch/ LCD Panel Kit

---

#### Features
- 17” (1280 x 1024) MNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

---

#### Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>16.14” x 14.57” x 1.1” (410mm x 370mm x 28mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.47” x 10.32” x 19.29” (522mm x 262mm x 490mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>8.8 lb(4 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Gms/ 5 ~ 500Hz / operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC Class A</td>
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</table>

<table>
<thead>
<tr>
<th>Power Supply</th>
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</thead>
<tbody>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LCD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Type</td>
<td>17” TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>350 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>170° (H), 160° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Touch Screen</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/USB Type Touch</td>
</tr>
</tbody>
</table>

---

Note: All specifications are subject to change without notice.
OMNI Series : Modular Builder - Panel Kit

**Dimension**
Unit: mm

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-317DHTT-KIT-A1-1012</td>
<td>17” TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170(H), 160(V)</td>
<td>50,000</td>
<td>-10°C – 55°C</td>
<td>Full Flat Resistive Touch Screen</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
<tr>
<td>OMNI-317DHTT-KIT-A2-1011</td>
<td>17” TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170(H), 160(V)</td>
<td>50,000</td>
<td>-10°C – 55°C</td>
<td>Projective Capacitive Touch</td>
<td>Support OMNI CPU BOX Kit</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI Series : Modular Builder - Panel Kit

OMNI-319D
19” OMNI Modular Touch/ LCD Panel Kit

Features
- 19” (1280 x 1024) OMNI Modular Touch/ LCD Kit
- Supports Projected Capacitive Multi Touch or Resistive Touch Screen
- IP65 Compliant Aluminum Front Bezel

Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum Front Bezel</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>18.13” x 16.12” x 1.1” (460.4mm x 409.4mm x 28mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>26.02” x 8.11” x 19.53” (661mm x 206mm x 496mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>11 lb (5 kg)</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C, non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Gms/ 5 - 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC Class A</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td></td>
</tr>
<tr>
<td>DC input</td>
<td>—</td>
</tr>
<tr>
<td><strong>LCD</strong></td>
<td></td>
</tr>
<tr>
<td>Display Type</td>
<td>19” TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1280 x 1024</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.7M colors</td>
</tr>
<tr>
<td>Luminance</td>
<td>350 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>170° (H), 160° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (hours)</td>
<td>50,000</td>
</tr>
<tr>
<td><strong>Touch Screen</strong></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>P-CAP/ Full-flap resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>90%</td>
</tr>
<tr>
<td>Others</td>
<td>1. Connect with OMNI-Box Kit</td>
</tr>
<tr>
<td></td>
<td>2. Connect with LVDS/USB Type Touch</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-319DHTT-KIT-A1-1012</td>
<td>19&quot; TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170(H), 160(V)</td>
<td>50,000</td>
<td>-10°C ~ 55°C</td>
<td>Full Flat Resistive Touch Screen</td>
<td>Support OMNI CPU BOX kit</td>
</tr>
<tr>
<td>OMNI-319DHTT-KIT-A2-1011</td>
<td>19&quot; TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170(H), 160(V)</td>
<td>50,000</td>
<td>-10°C ~ 55°C</td>
<td>Projective Capacitive Touch</td>
<td>Support OMNI CPU BOX kit</td>
</tr>
</tbody>
</table>
# OMNI-BT CPU BOX Kit

OMNI Series Modules - CPU BOX Kit

## Features
- Intel® N2807/J1900 Processor
- Aluminum Design
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

## Specifications

### System

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® N2807 processor, 1.58 GHz Intel® Celeron® J1900 processor, 2 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>204-pin DDR3L 1333MHz SoDIMM x 1, up to 8 GB (J1900) 204-pin DDR3L 1333MHz SoDIMM x 1, up to 4 GB (N2807)</td>
</tr>
<tr>
<td>LCD CRT Controller</td>
<td>Integrated in processor</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® I211, 10/100/1000 Base-TX x 2</td>
</tr>
<tr>
<td>IO Port</td>
<td>USB 2.0 Type A x 3 USB 3.2 Gen 1 Type A x 1 SMA Antenna hole x 1 HDMI x 1 CFast™ x 1 DB-9 x 1 for RS-232/422/485 RJ-45 x 2 for 10/100/1000 Base-TX DB-15 x 1 for VGA 3-pin terminal block x 1 for 9–30 Vdc power input LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>CFast™ x 1, 2.5” SATA HDD bay x 1</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Mini card x 2 (Full size x 2) SIM card x 1 OMNI I/O connector x 1</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 7, Windows® 8, Windows® 10, Linux Kernel 2.6.x or higher</td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum design</td>
</tr>
<tr>
<td>Mounting</td>
<td>Wallmount</td>
</tr>
<tr>
<td>Dimension</td>
<td>7.2” x 6.38” x 1.1” (183mm x 162mm x 28mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>3.96 lb (1.8 kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>14°F – 131°F (-10°C – 55°C) (J1900) 14°F – 140°F (-10°C – 60°C) (N2807) with 0.5 m/s airflow (CF &amp; HDD)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F – 158°F (-20°C – 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>95% @40°C; non-condensing</td>
</tr>
<tr>
<td>Anti-Vibration</td>
<td>1 Grms/ 5-500Hz operation – with HDD</td>
</tr>
<tr>
<td>Anti-Shock</td>
<td>15 G peak acceleration (11 msec. duration) – HDD</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC class A</td>
</tr>
<tr>
<td>DC Input</td>
<td>DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function</td>
</tr>
<tr>
<td>Display Type</td>
<td>HDMI x 1, VGA</td>
</tr>
<tr>
<td>Others</td>
<td>Box Bottom Chassis Cover (optional): M0421550A0</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI-BT CPU BOX Kit

Dimension
Unit: mm

Optional Accessories
- AP-OT9789LA1000
  LCD monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- MD421550A0
  OMNI BOX Bottom Cover
- 170203180E
  Power Cord (Japanese Type)
- 1255900849
  [TF]adapter,AC/DC,Input 9V–264V.
  Output 12–24V
  ( tp.phoenix, FSP/FSP084-
  DHAN/J90404071B)
- 1700021500
  Remote Switch Cable, 150 cm

Packing List
- Phoenix Power Connector
- OMNI-BT CPU BOX Kit

Wide Temperature DRAM
- 9761215500
  2GB Wide Temperature DRAM (-40°C – 95°C)
- 9761215501
  4GB Wide Temperature DRAM (-40°C – 95°C)
- 9761215502
  8GB Wide Temperature DRAM (-40°C – 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.**

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU Model</th>
<th>CPU Series</th>
<th>LAN Ports</th>
<th>USB 3.2</th>
<th>USB 2.0</th>
<th>RS-232</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM Type</th>
<th>Display</th>
<th>Expansion</th>
<th>Power Supplies</th>
<th>Operating Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-BT-KIT-A1-1010</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>—</td>
<td>1</td>
<td>CFast™ x 1</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR3L, up to 8 GB</td>
<td>VGA x 1</td>
<td>Mini-Card x 2 (Full Size) OMNI Module</td>
<td>DC 9–30V</td>
<td>-10°C – 55°C with airflow</td>
</tr>
<tr>
<td>OMNI-BT-KIT-A2-1010</td>
<td>Intel® N2807, 1.56 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>—</td>
<td>1</td>
<td>CFast™ x 1</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR3L, up to 4 GB</td>
<td>VGA x 1</td>
<td>Mini-Card x 2 (Full Size) OMNI Module</td>
<td>DC 9–30V</td>
<td>-10°C – 60°C with airflow</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.

www.aaeon.com
OMNI-SKU CPU-BOX Kit

OMNI Series Modules - CPU BOX Kit

Specifications

Features
- Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995 Processor
- 10/100/1000 Base-TX RJ-45 Port x 1
- RS-232/422/485 x 2
- USB 3.2 Gen 1 x 4
- Aluminum Design
- Fanless Operation
- DC 9~30V

Specifications

System
- Processor: Intel® Core™ i7-6600U, i5-6300U, i3-6100U, Celeron® 3995
- System Memory: 260-pin DDR4 SODIMM x 1, Max. 16GB
- LCD CRT Controller: Integrated in processor
- Ethernet: Gigabit Ethernet, RJ-45 x 1
- IO Port: USB Type A x 4 for USB 3.2 Gen 1, RJ-45 x 1 for GNE LAN, DB-9 x 2 for RS-232, DB-9 x 1 for RS-232/422/485, Power input connector, Power ON/OFF Switch x 1, antenna hole
- HDMI x 1, 3-pin terminal Power input x 1
- Storage Disk Drive: 2.5” SATA HDD bay x 1
- Expansion Slot: Full size mini card x 1, SIM card x 1, OMNI I/O connector x 1
- OS Support: Windows® 10 (64-bit), Linux kernal 2.6.3 or above
- Construction: Aluminum design
- Mounting: Wallmount (with optional Bottom cover: M0421550A0) / with OMNI-Panel Kits
- Dimension: 7.2” x 6.38” x 1.77” (183mm x 162mm x 45mm)
- Gross Weight: 3.96 lb (1.8 kg)
- Operating Temperature: -4°F ~ 131°F (-20°C ~ 55°C)
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C; non-condensing
- Anti Vibration: 1 Grms/ 5 – 500Hz (operation – with HDD)
- Anti-Shock: 15 G peak acceleration (11 msec. duration) – HDD
- Certification: CE/FCC class A
- DC Input: DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function
- Display Type: HDMI x 1
- Others: Box Bottom Chassis Cover (optional): M0421550A0

Note: All specifications are subject to change without notice.
OMNI-SKU CPU-BOX Kit

Dimension Unit: mm

OMNI-SKU BOX

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2</th>
<th>USB 2.0</th>
<th>RS-232</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-SKU-KIT-A1-1110</td>
<td>Intel® i5-6300U Processor</td>
<td>1</td>
<td>4</td>
<td>—</td>
<td>—</td>
<td>2</td>
<td>2.5&quot; SATA/HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size) OMNI Module</td>
<td>Wallmount</td>
<td>DC 9~30V</td>
</tr>
<tr>
<td>OMNI-SKU-KIT-A2-1110</td>
<td>Intel® C-3955U Processor</td>
<td>1</td>
<td>4</td>
<td>—</td>
<td>—</td>
<td>2</td>
<td>2.5&quot; SATA/HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size) OMNI Module</td>
<td>Wallmount</td>
<td>DC 9~30V</td>
</tr>
<tr>
<td>OMNI-SKU-KIT-A3-1110</td>
<td>Intel® i7-6600U Processor</td>
<td>1</td>
<td>4</td>
<td>—</td>
<td>—</td>
<td>2</td>
<td>2.5&quot; SATA/HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size) OMNI Module</td>
<td>Wallmount</td>
<td>DC 9~30V</td>
</tr>
<tr>
<td>OMNI-SKU-KIT-A4-1110</td>
<td>Intel® i3-6100U Processor</td>
<td>1</td>
<td>4</td>
<td>—</td>
<td>—</td>
<td>2</td>
<td>2.5&quot; SATA/HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size) OMNI Module</td>
<td>Wallmount</td>
<td>DC 9~30V</td>
</tr>
</tbody>
</table>

Packing List

- Phoenix Power Connector
- OMNI-SKU CPU BOX Kit

Optional Accessories

- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- M0421550A0 OMNI BOX Bottom Cover
- 170203180E Power Cord (Japanese Type)

Note: All specifications are subject to change without notice.
OMNI Series Modules - CPU BOX Kit

Specifications

### Features
- OMNI-Panel Kit Support from 12 inches to 21.5 inches.
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- Support M.2 PCIe x 4 SSD
- Support OMNI Series Flat 5-Wire Resistive / PCAP MultiTouch
- IP65 Stainless Front Bezel Design (The same bezel as OMNI using)
- Extreme Passive Cooling Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

### System

<table>
<thead>
<tr>
<th>Processor</th>
<th>Intel® Alder Lake-P i7/i5/i3/Celeron CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory</td>
<td>DDR5 4800 MHz, Dual Channel SODIMM x 2</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® i210/211, 10/100/1000Base</td>
</tr>
<tr>
<td></td>
<td>Intel® i225, 10/100/1000/2500Base</td>
</tr>
<tr>
<td>IO Port</td>
<td>LAN x2, USB Type A x2, USB Type C x1, HDMI x1, Audio x1, COM x2</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5&quot; SATA-III x1 (6 Gb/s, for 2.5&quot; SATA drive bay), M.2 2280 NVMe x1 (for PCIe NVMe Storage)</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gen2+SATA E-Key 2230 x 1 (PCIe, USB2.0)</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows 10/Windows 11/Linux</td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum design</td>
</tr>
<tr>
<td>Mounting</td>
<td>TBD</td>
</tr>
<tr>
<td>Dimension</td>
<td>TBD</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>TBD</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>23°F - 122°F (5°C - 50°C) with 0.5 m/s airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F - 140°F (-20°C - 60°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Anti-Vibration</td>
<td>1Gms / 5 – 500Hz / operation</td>
</tr>
<tr>
<td>Anti-Shock</td>
<td>15 G peak acceleration (11 msec. duration)</td>
</tr>
<tr>
<td>Certification</td>
<td>CE/FCC Class A Compatible</td>
</tr>
<tr>
<td>DC Input</td>
<td>DC 9 - 36V</td>
</tr>
<tr>
<td>Display Type</td>
<td>OMNI Series Panel Kit from 12.1 inches to 21.5 inch</td>
</tr>
<tr>
<td>Others</td>
<td>Flat 5-Wire Resistive / PCAP multitouch (Support Gloves)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI-ADP-KIT CPU BOX

Dimension
Unit: mm

Packing List
- OMNI-ADP-KIT
- Power Connector

Optional Accessories
- TBD

Ordering Information
- TBD

Note: All specifications are subject to change without notice.
OMNI Series : Modular Builder - BOX Kit

OMNI-ADB-KIT
Display BOX Kit, DC 12~30V

Features
- Compatible with OMNI Series Modules- Panels: to Build Your Own OMNI Display
- No any Firmware Changes Needed to Combine with 7 Sizes OMNI Panel Modules
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

System
- Input Signal: VGA / HDMI
- On Screen Display Control: 5 keys OSD keypad (Up, Down, Menu, Auto, Power)
- I/O Port: DB-15 x 1 for VGA HDMI x 1 USB A x 1 (For Enable T/S Function) Line in x 1 (For optional internal Speaker) Power Input x 1 (Default Terminal Block 3pin)

Mechanical
- Construction: Metal chassis
- Mounting: Must be assembled with OMNI-Series Modules- Panels
- Dimension: 5.1" x 6.4" x 1.2" (128.6mm x 161.5mm x 30.7mm)
- Carton Dimension: 12.3" x 10.1" x 7.6" (312mm x 257mm x 194mm)
- Gross Weight: 5.5 lb (2.5 kg)
- Net Weight: 2.6 lb (1.2 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 10%~90% @104°F (40°C); non-condensing
- Vibration: 1 Grms / 5~500Hz/random Operation
- Shock: —
- EMC: CE/FCC, Class A

Power Supply
- DC Input: DC 12~30V Power Input with 3 Pin Terminal Block

LCD
- Display Type: Depends on your OMNI Panel Modules
- Max. Resolution:
- Max. Colors:
- Luminance:
- Viewing Angle:
- Back Light:
- Back Light MTBF (Hours):
- Touchscreen:
- Type:
- Light Transmission: Depends on your OMNI Panel Modules
- Life Time:

Note: All specifications are subject to change without notice.
**OMNI Series: Modular Builder - BOX Kit**

**Dimension**

Unit: mm

---

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-ADB-KIT-A1-1010</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>VGA x 1</td>
<td>Mount with OMNI Panel Modules</td>
<td>DC 12V-30V</td>
<td>14°F – 131°F (-10°C – 55°C) (with 0.5 m/s airflow)</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

---

**Packing List**

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-ADB-KIT

---

**Optional Accessories**

- 125530040F
  (TP)AC/DC Adapter: 12V 40W, 3.33A, FSP3p phoenix. FSP040-DHAN3.9NA0406819
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- 1702031802
  Power Cord (US Type)

---

**Note:** All specifications are subject to change without notice.

www.aaeon.com
I/O Modules

9741215501 - Mini Card x 2 & SIM Card x 2 Module
Mini PCIe Slot x 2, for OMNI Panel PC Only

Features
- Full-size Mini-Card Slot x 2
- SIM Card Slot x 2
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information
- 9741215501
  Mini Card x 2 & SIM Card x 2 Module (wireless Mini-Card Module Excluded)

Dimension
Unit: mm

---

9741215502 - Dual LAN Module
Gigabit Ethernet x 2, for OMNI Panel PC only

Features
- Gigabit Ethernet x 2
- Intel® i211 Chipset
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information
- 9741215502
  Dual LAN Module

Dimension
Unit: mm
9741215506 - DIO Module

DIO without Isolation x 8, for OMNI Panel PC only

**Features**
- DIO x 8 (3.3 Vac)
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

**Ordering Information**
- 9741215506
  DIO Module

**Dimension**
Unit: mm

---

9741215508 - Audio Module

MIC-In x 1, Line-out x 1, for OMNI Panel PC only

**Features**
- Mic in x 1
- Line out x 1
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

**Ordering Information**
- 9741215508
  Audio Module

**Dimension**
Unit: mm
I/O Modules

9741215510 - HMS Kit
10/100 Ethernet x 2, for OMNI Panel PC Only

Features
- 10/100 Ethernet x 2, Anybus
- Support All Major Industrial Ethernet and Fieldbus Networks
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

* Due to communication protocol limit, only for EU region

Ordering Information
- 9741215510
  HMS Kit

Dimension
Unit: mm

9741215512
WiFi 802.11 b/g/n Module

Features
- Supports 802.11b/g/n
- Supports BT 4.0
- OS support: Windows® 7, Windows® 10, Linux Kernal 2.6.x or above

Ordering Information
- 9741215512
  WiFi 802.11 b/g/n Module

Dimension
Unit: mm

Note: All specifications are subject to change without notice.
9741215513
RS-485/422/232 Module

**Features**
- RS-232/422/485 x 2
- Selection by Jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

**Ordering Information**
- 9741215513
  RS-485/422/232 Module

**Dimension**
Unit: mm

9741215515
OMNI USB/COM/LAN Module

**Features**
- USB 2.0 x 2
- RS-232/422/485 x 2 (Selection by External Switch)
- Gigabit Ethernet x 1
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

**Ordering Information**
- 9741215515
  USB/COM/LAN Module

**Dimension**
Unit: mm
I/O Modules

9741215516
OMNI COM x 4 Module

Features
- RS-232/422/485 x 4
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Dimension
Unit: mm

9741215517
OMNI Isolated COM Module

Features
- Isolated RS-232/422/485 x 4
- 2K VDC Isolation
- Selection by internal jumper
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Dimension
Unit: mm
OMNI COM, DIO Module

Features
- DB-9 Isolated RS-232/422/485 x 4
- DIO x 16
- OS support: Windows® 7, Windows® 10, Linux Kernel 2.6.x or above

Dimension

Unit: mm

Note: All specifications are subject to change without notice.

www.aaeon.com
OMNI Series: Modular Touch Panel Solutions
OMNI-2155-BT
15.6” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

Features
- Intel® Celeron® J1900/ N2807 Processor
- 15.6” (1366 x 768) TFT LCD Display
- Flat Screen with P-CAP or Resistive Touch Screen
- Easily Expandable I/O by AAEON OMNI I/O Modules
- Multiple Touchscreen
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Support Remote Power On/Off Connector
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Processor</th>
<th>Intel® Celeron® J1900, 2.0 GHz / N2807, 1.58 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory</td>
<td>204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB (J1900), 4 GB (N2807)</td>
<td></td>
</tr>
<tr>
<td>LCD/CRT Controller</td>
<td>Integrated in Processor</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>10/100/1000Base-TX, RJ-45 x 2</td>
<td></td>
</tr>
<tr>
<td>I/O Port</td>
<td>USB Type A x 1 for USB 3.2 Gen 1, USB Type A x 3 for USB 2.0, SMA antenna hole x 1, HDMI x 1, CFast™ x 1, DB-9 for RS-232/422/485 x 1, RJ-45 x 2 for 10/100/1000Base-TX, DB-15 x 1 for VGA, 3-pin terminal block x 1 for 9-30 V DC power input, LED Power On/Off Switch x 1 (Power on = orange, Power off = N/A)</td>
<td></td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>CFast™ socket x 1, SATA 2.5” HDD bay x 1</td>
<td></td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Mini-Card x 2 (Full Size), OMNI I/O Connector x 1, SIM x 2</td>
<td></td>
</tr>
<tr>
<td>OS support</td>
<td>Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher</td>
<td></td>
</tr>
<tr>
<td>Mechanical</td>
<td>Aluminum front bezel + metal chassis</td>
<td></td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 100/ Panel mount</td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>16.54” x 10.43” x 2.36” (420mm x 265mm x 60mm)</td>
<td></td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.87” x 17.52” x 7.87” (530mm x 445mm x 200mm)</td>
<td></td>
</tr>
<tr>
<td>Gross Weight</td>
<td>14.1 lb (6.4kg)</td>
<td></td>
</tr>
</tbody>
</table>

Environmental
- Operating Temperature -4°F ~ 140°F (-20°C ~ 60°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: N2807)
  -4°F ~ 111°F (-20°C ~ 55°C) with industrial grade device (with 0.5 m/s air flow, according to IEC68-2-14, CPU: J1900)
- Storage Temperature -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity 90% @40°C, non-condensing
- Vibration 1 Grms/ 5 ~ 500 Hz/ Operation (HDD)
- Shock 15 G peak acceleration (11 msec. duration)
- EMC CE/FCC class A

Power Supply
- DC input DC 9 (min.) – 30 (max.) V w/ 3-pin terminal block, ATX Power function

LCD
- Display Type 15.6” TFT-LCD, LED backlight
- Max Resolution 1366 x 768
- Max. Colors 16.7M colors (8-bit for R,G,B)
- Luminance 400 cd/m²
- Viewing Angle 160° (H), 140° (V)
- Back Light LED
- Back Light MTBF (Hours) 50,000

Touchscreen
- Type P-CAP/ 5-wire resistive
- Light Transmission P-CAP (90% x 3%), 5-wire Resistive (80% x 3%)

Note: All specifications are subject to change without notice.
OMNI-2155-BT

OMNI Series: Modular Touch Panel Solutions

Dimension
Unit: mm

OMNI-2155-BT

Cutout Dimension = 390*240mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.0 Gen 1</th>
<th>USB 2.0</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI I/O Module</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel PC</td>
<td>OMNI-2155HTT-BT-A1-0111</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>Panel PC</td>
<td>OMNI-2155HTT-BT-A2-1011</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>Panel PC</td>
<td>OMNI-2155HTT-BT-A1-1011</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>Projected capacitive</td>
</tr>
<tr>
<td>Panel PC</td>
<td>OMNI-2155HTT-BT-A2-1012</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>Projected capacitive</td>
</tr>
<tr>
<td>Panel Kit</td>
<td>OMNI-2155HTT-KIT-A1-1011</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>Panel Kit</td>
<td>OMNI-2155HTT-KIT-A2-1012</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>Projected capacitive</td>
</tr>
<tr>
<td>CPU Box Kit</td>
<td>OMNI-BT-KIT-A1-1011</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>CPU Box Kit</td>
<td>OMNI-BT-KIT-A2-1012</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® J1900, 2 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1, 2.5&quot; SATA HDD x 1</td>
<td>DDRL3, up to 8 GB</td>
<td>VOA x 1</td>
<td>HOM x 1</td>
<td>VESA 100/110 Panel mount</td>
<td>DC 9~30V</td>
<td>-10°C~55°C</td>
<td>with airflow</td>
<td>Projected capacitive</td>
</tr>
</tbody>
</table>

Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-2155

Optional Accessories

- AP-OT9789LA1000 LCD Monitor Stand 230mm, LA-100
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 1702031804 Power Cord (Japanese Type)
- 1259900049 12V 84W Power Adapter w/ 3pin Terminal Block
- 1700021500 Remote Switch Cable, 150 cm
- 974125501 Mini Card x 2, SIM x 2 Module
- 974125502 Dual LAN Module
- 974125506 DIO Module
- 974125508 Audio Module
- 974125510 HMS Kit (Europe Limitation)
- 974125512 Wi-Fi 802.11b/g/n Module
- 974125513 RS-485/422/232 x 2 Module
- 974125515 USB/COM/LAN Module
- 974125516 RS-485/422/232 x 4 Module
- 974125517 Isolation RS-485/422/232 x 4 Module
- 974125518 RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500 2GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215501 4GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215502 8GB Wide Temperature DRAM (-40°C ~ 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.**

Note: All specifications are subject to change without notice.

www.aaeon.com
OMNI-3105-BT
10.4” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

Features
- 10.4” (800 x 600) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

Specifications

System
- Processor: Intel® N2807 processor, 1.58 GHz, Intel® Celeron® J1900 processor, 2 GHz
- System Memory: 204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900)
  204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
- LCD/CRT Controller: Integrated in processor
- Ethernet: Intel® I211, 10/100/1000 Base-Tx x 2
- I/O Port:
  - USB 2.0 Type A x 3
  - USB 3.2 Gen 1 Type A x 1
  - SMA Antenna hole x 1
  - HDMI x 1
  - CFast™ x 1
  - DB-9 x 1 for RS-232/422/485
  - RJ-45 x 2 for GbE-LAN
  - DB-15 x 1 for VGA
  - 3-pin terminal block x1 for 9~30 Vdc power input
  - LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)
- Storage Disk Drive: CFast™ x 1, 2.5” SATA HDD bay x 1
- Expansion Slot: Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
- OS support: Windows® 7, Windows® 8, Windows® 10, Linux Kernal 2.6.x or higher

Mechanical
- Construction: Aluminum design (IP65 Front Frame)
- Mounting: VESA 100 / Panel Mount
- Dimension: 11.02” x 9.41” x 2.32” (280 mm x 239 mm x 59 mm)
- Carton Dimension: 16.34” x 7.05” x 15.39” (415mm x 179mm x 391mm)
- Gross Weight: 7.92 lb (3.6 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) (J1900),
  14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 1 G RMS/ 5 ~ 500Hz/ operation – with HDD
- Shock: 15 G peak acceleration (11 msec. duration) – with HDD
- EMC: CE/FCC class A

Power Supply
- DC input: DC 9 (min.) ~ 30 (max.) V w/ 3-pin terminal block, ATX Power function

LCD
- Display Type: 10.4” TFT-LCD, LED
- Max Resolution: 800 (H) x 600 (V)
- Max. Colors: 16.2M colors
- Luminance: 230 cd/m²
- Viewing Angle: 120° (H), 100° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

Touchscreen
- Type: P-CAP/ 5-wire resistive
- Light Transmission: P-CAP (90% x 3%), 5-wire Resistive (80% x 3%)

Note: All specifications are subject to change without notice.
OMNI-3105-BT

Dimension

Unit: mm

Cutout Dimension = 256*207mm

Ordering Information

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<th>Luminance</th>
<th>View Angle</th>
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Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3105-BT

Wide Temperature DRAM

- 9761215500
  2GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215501
  4GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215502
  8GB Wide Temperature DRAM (-40°C ~ 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C**

Optional Accessories

- AP-079789LA1000
  LCD Monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 1702031801E
  Power Cord (Japanese Type)
- 1255900849
  12V 64W Power Adapter w/ 3pin Terminal Block
- 1700021500
  Remote Switch Cable, 150cm

Note: All specifications are subject to change without notice.
**OMNI-3125-BT**

12.1” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

---

### Features
- 12.1” (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation

---

### Specifications

#### System
- **Processor**
  - Intel® N2807 processor, 1.58 GHz
  - Intel® Celeron® J1900 processor, 2 GHz
- **System Memory**
  - 204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900)
  - 204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
- **LCD/CRT Controller**
  - Integrated in processor
- **Ethernet**
  - 10/100/1000 Base-TX x 2
  - USB 2.0 Type A x 3
  - USB 3.2 Gen 1 Type A x 1
  - SMA Antenna hole x 1
  - HDMI x 1, CFast™ x 1
  - USB 3.2 Gen 1 x 1

#### I/O Port
- **USB 2.0 Type A** x 3
- **USB 3.2 Gen 1 Type A** x 1
- **SMA Antenna hole** x 1
- **HDMI** x 1, **CFast™** x 1
- **RS-232/422/485** x 1
- **LAN** x 2
- **Power Button**
- **Serial Port**
- **DB-9 Type RS-232/422/485** x 1
- **RJ-45 Type for 10/100/1000Base-TX** x 2

#### Storage Disk Drive
- **CFast™** x 1, **2.5” SATA HDD bay** x 1
- **Solid State Drive**
- **Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1**

#### OS Support
- Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher

#### Mechanical
- **Construction**
  - Aluminum design (IP65 Front Frame)
- **Mounting**
  - VESA 100/ Panel Mount
- **Dimension**
  - 12.95” x 11.34” x 2.2” (329 mm x 288 mm x 56 mm)
- **Carton Dimension**
  - 20.87” x 17.52” x 7.87” (530mm x 445mm x 200mm)
- **Gross Weight**
  - 11 lb (5.0 kg)

#### Environmental
- **Operating Temperature**
  - 14°F – 131°F (-10°C – 55°C) (J1900),
  - 14°F – 140°F (-10°C – 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
- **Storage Temperature**
  - -4°F – 158°F (-20°C – 70°C)
- **Storage Humidity**
  - 90% @40°C, non-condensing
- **Vibration**
  - 1 Gms/ 5~500Hz/ operation – with HDD
- **Shock**
  - 15 G peak acceleration (11 msec. duration) – with HDD
- **EMC**
  - CE/ FCC class A

#### Power Supply
- **DC input**
  - DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function

#### LCD
- **Display Type**
  - 12.1” TFT-LCD, LED
- **Max Resolution**
  - 1024 (H) x 768 (V)
- **Max. Colors**
  - 16.2M colors
- **Luminance**
  - 500 cd/m²
- **Viewing Angle**
  - 160° (H), 160° (V)
- **Back Light**
  - LED
- **Back Light MTBF (Hours)**
  - 50,000

#### Touchscreen
- **Type**
  - P-CAP/ 5-wire resistive
- **Light Transmission**
  - P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

---

Note: All specifications are subject to change without notice.

---
OMNI-3125-BT

Dimension
Unit: mm

Cutout Dimension = 305*243mm

Ordering Information

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<td>CFast™ x 1, 2.5” SATA HDD x 1</td>
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<td>VOA x 1</td>
<td>HDMI x 1</td>
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Panel Kit

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Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3125-BT

Optional Accessories

- AP-OT9789LA1000
  LCD Monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 1702031805
  Power Cord (Japanese Type)
- 1255900849
  12V 94W Power Adapter w/ 3pin Terminal Block
- 9741312500
  Panel Mount Kit for OMNI-3125-BT

Wide Temperature DRAM

- 9761215500
  2GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215501
  4GB Wide Temperature DRAM (-40°C ~ 95°C)
- 9761215502
  8GB Wide Temperature DRAM (-40°C ~ 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.**
OMNI-3155-BT

15” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

Features
- 15” (1024 x 768) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

System
- Processor: Intel® N2807 processor, 1.58 GHz
  Intel® Celeron® J1900 processor, 2 GHz
- System Memory: 204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900)
  204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
- LCD/CRT Controller: Integrated in processor
- Ethernet: Intel® I211, 10/100/1000 Base-TX x 2
- I/O Port:
  - USB 2.0 Type A x 3
  - USB 3.2 Gen 1 Type A x 1
  - SMA Antenna hole x 1
  - HDMI x 1, CFast™ Slot x 1
  - DB-9 Type RS-232/422/485 x 1
  - RJ-45 Type for 10/100/1000Base-TX x 2
  - DB-15 x 1 for VGA
  - 3-pin terminal block x 1 for 9~30 Vdc power input
  - LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)
- Storage Disk Drive: CFast™ x 1, 2.5" SATA HDD bay x 1
- Expansion Slot: Full Size Mini card x 2, SIM card x 1, OMNI I/O connector x 1
- OS support: Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher

Mechanical
- Construction: Aluminum design (IP65 Front Frame)
- Mounting: VESA 100 / Panel Mount
- Dimension: 14.53” x 12.36” x 2.28” (369 mm x 314 mm x 58 mm)
- Carton Dimension: 20.08” x 9.84” x 18.11” (510mm x 250mm x 460mm)
- Gross Weight: 13.97 lb (6.35 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) (J1900),
  14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 1 Grms/ 5~ 500Hz/ operation – with HDD
- Shock: 15 G peak acceleration (11 msec. duration) – with HDD
- EMC: CE/FCC class A

Power Supply
- DC input: DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function

LCD
- Display Type: 15” TFT-LCD, LED
- Max Resolution: 1024 (H) x 768 (V)
- Max. Colors: 16.2M (8bit/color)
- Luminance: 300 cd/m²
- Viewing Angle: 176° (H), 176° (V)
- Back Light: LED
- Back Light MTBF (Hours): 70,000

Touchscreen
- Type: P-CAP/ 5-wire resistive
- Light Transmission: P-CAP (90% ± 2%), 5-wire Resistive (80% ± 2%)

Note: All specifications are subject to change without notice.
OMNI-3155-BT
OMNI Series: Modular Touch Panel Solutions

Dimension

Unit: mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>USB 2.0</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI I/O Module Support</th>
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<tbody>
<tr>
<td>OMNI-3155HTT-BT-A1-1012</td>
<td>15&quot; TFT LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
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<td>CFast™ x 1</td>
<td>2.5” SATA HDD x 1</td>
<td>CORL, up to 8 GB</td>
<td>VGA x 1</td>
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<td>VESA 100/</td>
<td>Panel mount</td>
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<td>2.5” SATA HDD x 1</td>
<td>CORL, up to 4 GB</td>
<td>VGA x 1</td>
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<td>Panel mount</td>
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<td>CORL, up to 4 GB</td>
<td>VGA x 1</td>
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<td>Panel mount</td>
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Panel Kit

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<th>CPU</th>
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<th>USB 3.2 Gen 1</th>
<th>USB 2.0</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI I/O Module Support</th>
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CPU Box Kit

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<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>USB 2.0</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
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OMNI Module (with AAEON Interface)

- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215502 Dual LAN Module
- 9741215506 DIO Module
- 9741215508 Audio Module
- 9741215510 HMS Kit (Europe Limitation)
- 9741215512 WiFi 802.11/b/g/n Module
- 9741215513 RS-485/422/232 x 2 Module
- 9741215515 USB / COM / LAN Module
- 9741215516 RS-485/422/232 x 4 Module
- 9741215517 Isolation RS-485/422/232 x 4 Module
- 9741215518 RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- 9761215500 2GB Wide Temperature DRAM (−40°C – 95°C)
- 9761215501 4GB Wide Temperature DRAM (−40°C – 95°C)
- 9761215502 8GB Wide Temperature DRAM (−40°C – 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

Note: All specifications are subject to change without notice.
OMNI-3175-BT

17” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

Features
- 17” (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

System
- Processor: Intel® N2807 processor, 1.58 GHz
  Intel® Celeron® J1900 processor, 2 GHz
- System Memory: 204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB, (J1900)
  204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB, (N2807)
- LCD/CRT Controller: Integrated in processor
- Ethernet: Intel® I211, 10/100/1000 Base-Tx x 2
- I/O Port: USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1
  SMA Antenna hole x 1
  HDMI x 1
  CFast™ x 1
  DB-9 Type RS-232/422/485 x 1
  RJ-45 Type for 10/100/1000Base-T x 2
  DB-15 x 1 for VGA
  3-pin terminal block x 1 for 9–30 Vdc power input
  LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)
- Storage Disk Drive: CFast™ x 1, 2.5” SATA HDD bay x 1
- Expansion Slot: Mini card x 2, SIM card x 1, OMNI I/O connector x 1
- OS support: Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher

Mechanical
- Construction: Aluminum design (IP65 Front Frame)
- Mounting: VESA 100/Panel Mount
- Dimension: 16.14” x 14.52” x 2.32” (410mm x 370mm x 59mm)
- Carton Dimension: 20.55” x 10.31” x 19.29” (522mm x 262mm x 490mm)
- Gross Weight: 15.84 lb (7.2 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) (J1900),
  14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF & HDD)
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 1 Gms/ 5–500Hz/ operation – with HDD
- Shock: 15 G peak acceleration (11 msec. duration) – with HDD
- EMC: CE/ FCC class A

Power Supply
- DC input: DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function

LCD
- Display Type: 17” TFT-LCD, LED
- Max Resolution: 1280 (H) x 1024 (V)
- Max. Colors: 16.7M colors (RGB 6-bits + Hi-FRC data)
- Luminance: 350 cd/m²
- Viewing Angle: 170° (H), 160° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

Touchscreen
- Type: P-CAP, 5-wire resistive
- Light Transmission: P-CAP (>85%), 5-wire Resistive (80% ± 5%)
OMNI Series : Modular Touch Panel Solutions

OMNI-3175-BT

Dimension
Unit: mm

Cutout Dimension = 385*323mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Panel PC</th>
<th>Kit</th>
<th>Panel Kit</th>
<th>CPU Box</th>
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<tbody>
<tr>
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<td>17&quot; TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170°(H)</td>
<td>10°(V)</td>
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<tr>
<td>OMNI-3175TT-BT-A2-1012</td>
<td>17&quot; TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170°(H)</td>
<td>10°(V)</td>
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<td>OMNI-3175TT-BT-A4-1011</td>
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<td>10°(V)</td>
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<td>10°(V)</td>
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<td>OMNI-3175TT-KIT-A2-1011</td>
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<td>10°(V)</td>
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Note: * RAM not included

Packing List

- Phoenix Power Connector
- OMNI-3175-BT

Optional Accessories

- AP-OT9789LA1000 LCD Monitor Stand 230mm, LA-100
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 1702031804 Power Cord (Japanese Type)
- 1255900849 12V 6AW Power Adapter w/ 3pin Terminal Block
- 1700021500 Remote Switch Cable, 150 cm
- 1702031800 USB 3.2 Gen 1
- 1702031801 USB 2.0
- 1702031802 RS-232/422/485

OMNI Module (With AAEON Interface)

- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215502 Dual LAN Module
- 9741215503 Wi-Fi 802.11b/g/n Module
- 9741215512 IO-201 Module
- 9741215513 IO-301 Module
- 9741215514 RS-485/422/232 x 4 Module
- 9741215515 USB / COM / LAN Module
- 9741215516 RS-485/422/232 x 2, DIO x 16 Module
- 9741215517 RS-485/422/232 x 2

Wide Temperature DRAM

- 9761215500 2GB Wide Temperature DRAM (~-40°C – 95°C)
- 9761215501 4GB Wide Temperature DRAM (~-40°C – 95°C)
- 9761215502 8GB Wide Temperature DRAM (~-40°C – 95°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

Note: All specifications are subject to change without notice.
OMNI Series : Modular Touch Panel Solutions

OMNI-3195-BT
19” Modular HMI Panel PC with Intel® Celeron® J1900/ N2807 Processor

Features
- 19” (1280 x 1024) TFT LCD Display
- Intel® N2807/J1900 Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

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<th>System</th>
<th>Processor</th>
<th>System Memory</th>
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<td>Intel® N2807 processor, 1.58 GHz</td>
<td>204-pin DDR3L 1333MHz SODIMM x 1, up to 8 GB</td>
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<td></td>
<td>Intel® Celeron® J1900 processor, 2 GHz</td>
<td>(J1900)</td>
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<td>204-pin DDR3L 1333MHz SODIMM x 1, up to 4 GB</td>
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<td>(N2807)</td>
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<td>LCD/CRT Controller</td>
<td>Integrated in processor</td>
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<td>Ethernet</td>
<td>USB 2.0 Type A x 3, USB 3.2 Gen 1 Type A x 1</td>
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<td>I/O Port</td>
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<td>HDMI x 1</td>
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<td>CFast™ x 1</td>
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<td>DB-9 Type RS-232/422/485 x 1</td>
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<td>RJ-45 Type for 10/100/1000 Base-TX x 2</td>
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<td>DB-15 x 1 for VGA</td>
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<td>3-pin terminal block x 1 for 9~30 Vdc power input</td>
<td>LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)</td>
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<td>Storage Disk Drive</td>
<td>CFast™ x 1, 2.5” SATA HDD bay x 1</td>
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<td>Expansion Slot</td>
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<td>OS support</td>
<td>Windows® 7, Windows® 8, Windows® 10, Linux kernel 2.6.x or higher</td>
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<tr>
<td>Mechanical</td>
<td>Construction</td>
<td>Aluminum design (IP65 Front Frame)</td>
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<td>Mounting</td>
<td>VESA 100/Panel mount</td>
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<tr>
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<td>Dimension</td>
<td>18.15” x 16.14” x 2.32” (461 mm x 410 mm x 59 mm)</td>
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<td>Carton Dimension</td>
<td>26.02” x 8.11” x 19.53” (661mm x 206mm x 496mm)</td>
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<td>Gross Weight</td>
<td>19.36 lb (8.8 kg)</td>
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<td>Environmental</td>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) (J1900),</td>
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<td>14°F ~ 140°F (-10°C ~ 60°C) (N2807) with 0.5 m/s airflow (CF &amp; HDD)</td>
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<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
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<td>90% @40°C; non-condensing</td>
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<td>1 Gms/ 5~500Hz/ operation – with HDD</td>
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<td>Shock</td>
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<td>Luminance</td>
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<td>Light Transmission</td>
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Note: All specifications are subject to change without notice.
OMNI-3195-BT

**Dimension**

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**Ordering Information**

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<td>19” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
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<td>Intel® Celeron® J1900, 2.0 GHz</td>
<td>2</td>
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<td>3</td>
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<td>CFast™ x 1</td>
<td>2.0&quot; SATA HDD x 1</td>
<td>DDR3L, up to 8 GB</td>
<td>VA x 1</td>
<td>VESA 100/100 mm Panel mount</td>
<td>DC</td>
<td>9 – 30V</td>
<td>-10°C~60°C with air flow</td>
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<td>OMNI-3195HTT-BT-A2-1012</td>
<td>19” TFT LCD</td>
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<td>350 cd/m²</td>
<td>170°(H) 160°(V)</td>
<td>Intel® N2807, 1.6 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1</td>
<td>2.0&quot; SATA HDD x 1</td>
<td>DDR3L, up to 4 GB</td>
<td>VA x 1</td>
<td>VESA 100/100 mm Panel mount</td>
<td>DC</td>
<td>9 – 30V</td>
<td>-10°C~60°C with air flow</td>
</tr>
<tr>
<td>OMNI-3195HTT-BT-A3-1011</td>
<td>19” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170°(H) 160°(V)</td>
<td>Intel® Celeron® J1900, 2.0 GHz</td>
<td>2</td>
<td>1</td>
<td>3</td>
<td>1</td>
<td>CFast™ x 1</td>
<td>2.0&quot; SATA HDD x 1</td>
<td>DDR3L, up to 8 GB</td>
<td>VA x 1</td>
<td>VESA 100/100 mm Panel mount</td>
<td>DC</td>
<td>9 – 30V</td>
<td>-10°C~60°C with air flow</td>
</tr>
</tbody>
</table>

**Cutout Dimension** = 429*359mm

**OMNI Module (With AAEON Interface)**

- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215508 Audio Module
- 9741215510 HDMI Kit (Europe Limitation)
- 9741215512 WiFi 802.11/b/g/n Module
- 9741215513 RS-485/422/232 x 2 Module
- 9741215514 RS-485/422/232 x 4 Module

**Wide Temperature DRAM**

- 9761215500 2GB Wide Temperature DRAM (−40°C ~ 95°C)
- 9761215501 4GB Wide Temperature DRAM (−40°C ~ 95°C)

**Packaging List**

- Phoenix Power Connector
- OMNI-3195-BT

**Optional Accessories**

- AP-0T9789LA1000 LCD Monitor Stand 230mm, LA-100
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 1702031804 12V 84W Power Adapter w/3pin Terminal Block
- 1700021500 Remote Switch Cable, 150 cm
- 1702031805 Power Cord (Japanese Type)

**Note:** RAM not included

**OMNI Series: Modular Touch Panel Solutions**

Note: All specifications are subject to change without notice.

www.aaeon.com 06-12
OMNI-2155-SKU
15.6” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/ Celeron® 3955U Processor

Features
- 15.6” (1366 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Power Input Protection: Over-Voltage Protection, Low-Voltage Protection, Reverse-Voltage Protection
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

| System                  | Processor                  | Intel® i5-6300U processor, 2.4 GHz  |
|                        |                           | Intel® Celeron® 3955U processor, 2.0 GHz  |
| System Memory          | 260-pin DDR4 SODIMM x 1, up to 16 GB  |
| LCD/CRT Controller     | Integrated in processor   |
| Ethernet               | Intel® I211, 10/100/1000 Base-TX x 1  |
| I/O Port               | USB 3.2 Gen 1 Type A x 4     |
|                        | SMA Antenna hole x 1        |
|                        | HDMI x 1                    |
|                        | DB-9 Type RS-232/422/485 x 2 |
|                        | RJ-45 Type 10/100/1000 Base-TX x 1  |
|                        | 3-pin terminal block x1 for 9–30 Vdc power input |
|                        | LED Power on/off switch x1 (Power on = Orange, Power off = N/A)  |
| Storage Disk Drive     | 2.5” SATA HDD bay x 1       |
| Expansion Slot         | Full Size Mini card x 1     |
|                        | SIM card x 1                |
|                        | OMNI I/O connector x 1      |
| OS support             | Windows® 8.1                |
|                        | Windows® 10 (64 bit)        |
|                        | Linux Kernal 2.6.x or higher|
| Mechanical             | Aluminum design (IP65 Front Frame)  |
| Construction           | VESA 100 / Panel Mount      |
| Mounting               | 16.54” x 10.43” x 2.87” (420 mm x 265 mm x 73 mm)  |
| Dimension              | 20.87” x 17.52” x 7.87” (530mm x 445mm x 200mm)  |
| Carton Dimension       | 14.96 lb (6.8 kg)           |
| Gross Weight           | -4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)  |
| Environmental          | -4°F ~ 108°F (-20°C ~ 70°C) |
| Operating Temperature  | 90% @40°C, non-condensing  |
| Storage Temperature    | 1 Gms/ 5 ~ 500Hz/operation – with HDD  |
| Storage Humidity       | 15 G peak acceleration (11 msec. duration) – with HDD  |
| Vibration              | CE/FCC class A              |
| Shock                  | Power Supply                |
|                        | DC input                   |
|                        | DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function |
| LCD                    | Display Type               |
|                        | 15.6” TFT-LCD, LED         |
| Max Resolution         | 1366 (H) x 768 (V)         |
| Max. Colors            | 16.7M (8 bit/color)        |
| Luminance              | 400 cd/m²                  |
| Viewing Angle          | 160 (H), 140 (V)           |
| Back Light             | LED                        |
| Back Light MTBF (Hours) | 50,000                     |
| Touchscreen            | Type                       |
|                        | P-CAP/ 5-wire resistive    |
|                        | Light Transmission         |
|                        | P-CAP (90% ± 3%), 5-wire Resistive (80% ± 2%)  |
### Dimension

Cutout Dimension = 390*240mm

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI I/O Module Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-2155HTT- SKU-A4-1110</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel®  3955U, 2.4 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A3-1110</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
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<td>OMNI-2155HTT- SKU-A2-1110</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A1-1110</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A4-1113</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel®  3955U, 2.4 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A3-1113</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A2-1113</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
<tr>
<td>OMNI-2155HTT- SKU-A1-1113</td>
<td>15.6&quot; TFT LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160°(H) 140°(V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 100'</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>5-wire Resistive</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.

### Packing List

- Phoenix Power Connector
- OMNI-2155-SKU

### Optional Accessories

- AP-OT9789LA1000 LCD Monitor Stand 230mm, LA-100
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 1702031807 Power Cord (Japanese Type)
- 1255900849 12V 84W Power Adapter w/ 3pin Terminal Block
- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215502 Dual LAN Module
- 9741215506 DIO Module
- 9741215508 Audio Module
- 9741215510 HMS Kit (Europe Limitation)
- 9741215512 Wi-Fi 802.11/b/g/n Module
- 9741215513 RS-485/422/232 x 2 Module
- 9741215515 USB/COM/LAN Module
- 9741215516 RS-485/422/232 x 4 Module
- 9741215517 Isolation RS-485/422/232 x 4 Module
- 9741215518 RS-485/422/232 x 2, DIO x 16 Module
- AP-DR9D4004G00A 4GB Wide Temperature DRAM (~40°C ~ 85°C)
- 9D4008G001 4GB Wide Temperature DRAM (-40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

### Wide Temperature DRAM

- 16GB Wide Temperature DRAM (~40°C ~ 85°C)

Note: All specifications are subject to change without notice.
OMNI-2215-SKU
21.5” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor

Features
- 21.5” (1920 x 1080) TFT LCD Display
- Intel® 6th Generation Core™ i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core™ i5-6300U processor, 2.4 GHz</td>
</tr>
<tr>
<td></td>
<td>Intel® Celeron® 3955U processor, 2.0 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>260-pin DDR4 SODIMM x 1, up to 16 GB</td>
</tr>
<tr>
<td>LCD/CRT Controller</td>
<td>Integrated in processor</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® I211, 10/100/1000 Base-TX x 1</td>
</tr>
<tr>
<td>I/O Port</td>
<td>USB 3.2 Gen 1 Type A x 4, SMA Antenna hole x 1, HDMI x 1</td>
</tr>
<tr>
<td></td>
<td>DB-9 Type RS-232/422/485 x 2, RJ-45 Type 10/100/1000 Base-TX x 1</td>
</tr>
<tr>
<td></td>
<td>3-pin terminal block x 1 for 9~30 Vdc power input</td>
</tr>
<tr>
<td></td>
<td>LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA HDD bay x 1</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Full Size Mini card x 1, SIM card x 1, OMNI I/O connector x 1</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows® 8.1, Windows® 10 (64 bit), Linux Kernel 2.6.x or higher</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Aluminum design (IP65 Front Frame)</td>
</tr>
<tr>
<td>Construction</td>
<td>VESA 100/ Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>21.7” x 14.7” x 2.6” (550mm x 373mm x 66mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>26.38” x 7.87” x 20.67” (670mm x 200mm x 525mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>20.02 lb (9.1 Kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C, non-condensing</td>
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<tr>
<td>Vibration</td>
<td>1 Gms/ 5-500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15 G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/ FCC class A</td>
</tr>
<tr>
<td>Power Supply</td>
<td>DC input DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function</td>
</tr>
<tr>
<td>LCD Display Type</td>
<td>21.5” TFT-LCD, LED</td>
</tr>
<tr>
<td>Max Resolution</td>
<td>1920 (H) x 1080 (V)</td>
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<tr>
<td>Max. Colors</td>
<td>16.7M colors</td>
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<tr>
<td>Luminance</td>
<td>250 cd/m²</td>
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<tr>
<td>Viewing Angle</td>
<td>178 (H), 178 (V)</td>
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<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (Hours)</td>
<td>50,000</td>
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<tr>
<td>Touchscreen</td>
<td>Type P-CAP, 5-wire resistive</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>P-CAP (&gt;85%), 5-wire Resistive (80% ± 5%)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI Series : Modular Touch Panel Solutions

OMNI-2215-SKU

Dimension

OMNI-2215SKU

Cutout Dimension = 525*350mm

Ordering Information

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<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>RS-232/232/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI U/O Module Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-2215TTC-1011</td>
<td>21.5&quot; TFT LCD</td>
<td>1920 x 1080</td>
<td>250 cd/m²</td>
<td>178°(V)</td>
<td>Intel® Celeron®</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>5&quot; SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1</td>
<td>Full Profile</td>
<td>VESA 100/</td>
<td>DC 9~30V</td>
<td>-20°C~55°C</td>
<td>5-wire Resistive</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.

Packing List

- Phoenix Power Connector
- OMNI-2215-SKU

Optional Accessories

- AP-0T9789LA1000 LCD Monitor Stand 230mm, JA-100
- 1702031802 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 170203180E Power Cord (Japanese Type)
- 1255900049 12V 84W Power Adapter w/ 3pin Terminal Block

OMNI Module (with AAEON Interface)

- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215502 Dual LAN Module
- 9741215506 DIO Module
- 9741215508 Audio Module
- 9741215510 HMS Kit (Europe Limitation)
- 9741215512 Wi5 802.11/b/g/n Module
- 9741215513 RS-485/422/232 x 2 Module
- 9741215515 USB/COM/LAN Module
- 9741215516 RS-485/422/232 x 4 Module
- 9741215517 Isolation RS-485/422/232 x 4 Module
- 9741215518 RS-485/422/232 x 2, DIO x 16 Module

Wide Temperature DRAM

- AP-DR9D4004G00A 4GB Wide Temperature DRAM (-40°C – 85°C)
- 9D4006G001 8GB Wide Temperature DRAM (-40°C – 85°C)
- 96BD4016GY 16GB Wide Temperature DRAM (-40°C – 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.**
OMNI Series : Modular Touch Panel Solutions

OMNI-3125-SKU
12.1” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor

Features
■ 12.1” (1024 x 768) TFT LCD Display
■ Intel® 6th Generation i5-6300U/C-3955U Processor
■ P-CAP or Resistive Touch Screen Support
■ Aluminum Design
■ IP65 Compliant Front Bezel
■ Fanless Operation

Specifications

<table>
<thead>
<tr>
<th>Features</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.1” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor</td>
<td>Features: 12.1” (1024 x 768) TFT LCD Display, Intel® 6th Generation i5-6300U/C-3955U Processor, P-CAP or Resistive Touch Screen Support, Aluminum Design, IP65 Compliant Front Bezel, Fanless Operation.</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel® i5-6300U processor, 2.4 GHz</td>
</tr>
<tr>
<td>Processor</td>
<td>Intel® Celeron® 3955U processor, 2.0 GHz</td>
</tr>
<tr>
<td>System Memory</td>
<td>260-pin DDR4 SODIMM x 1, up to 16 GB</td>
</tr>
<tr>
<td>LCD/CRT Controller</td>
<td>Integrated in processor</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® I211, 10/100/1000 Base-TX x 1</td>
</tr>
<tr>
<td>I/O Port</td>
<td>USB 3.2 Gen 1 Type A x 4</td>
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<tr>
<td>I/O Port</td>
<td>SMA Antenna hole x 1</td>
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<tr>
<td>I/O Port</td>
<td>HDMI x 1</td>
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<tr>
<td>I/O Port</td>
<td>RJ-45 Type 10/100/1000 Base-TX x 1</td>
</tr>
<tr>
<td>I/O Port</td>
<td>3-pin terminal block x 1 for 9–30 Vdc power input</td>
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<tr>
<td>I/O Port</td>
<td>LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA HDD bay x 1</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>Full Size Mini card x 1</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>SIM card x 1</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>OMNI I/O connector x 1</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows® 8.1</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows® 10 (64 bit)</td>
</tr>
<tr>
<td>OS support</td>
<td>Linux Kernal 2.6.x or higher</td>
</tr>
<tr>
<td>Construction</td>
<td>Aluminum design (IP65 Front Frame)</td>
</tr>
<tr>
<td>Mounting</td>
<td>VESA 100 / Panel Mount</td>
</tr>
<tr>
<td>Dimension</td>
<td>12.95” x 11.34” x 2.72” (329mm x 28mm x 69 mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.87” x 17.52” x 7.87” (530mm x 445mm x 200mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>12.34 lb (5.6 kg)</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 158°F (-20°C ~ 70°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>90% @40°C; non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Gms/ 5 – 500Hz/ operation – with HDD</td>
</tr>
<tr>
<td>Shock</td>
<td>15 G peak acceleration (11 msec. duration) – with HDD</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FC class A</td>
</tr>
<tr>
<td>Power Supply</td>
<td>DC input: DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function</td>
</tr>
<tr>
<td>LCD</td>
<td>Display Type: 12.1” TFT-LCD, LED</td>
</tr>
<tr>
<td>LCD</td>
<td>Max Resolution: 1024 (H) x 768 (V)</td>
</tr>
<tr>
<td>LCD</td>
<td>Max. Colors: 16.2M colors</td>
</tr>
<tr>
<td>LCD</td>
<td>Luminance: 500 cd/m²</td>
</tr>
<tr>
<td>LCD</td>
<td>Viewing Angle: 160° (H), 160° (V)</td>
</tr>
<tr>
<td>LCD</td>
<td>Back Light: LED</td>
</tr>
<tr>
<td>LCD</td>
<td>Back Light MTBF (Hours): 50,000</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Type: P-CAP/ 5-wire resistive</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>Light Transmission: P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)</td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
OMNI Series : Modular Touch Panel Solutions

OMNI-3125-SKU

Dimension
Unit: mm

OMNI-3125-SKU

OMNI Series : Modular Touch Panel Solutions

OMNI Module (with AAEON Interface)

OMNI-3125HTT-SKU-A1-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
5-wire Resistive
No

OMNI-3125HTT-SKU-A2-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A3-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A4-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI Module (with AAEON Interface)

OMNI-3125HTT-SKU-A1-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
5-wire Resistive
No

OMNI-3125HTT-SKU-A2-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A3-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A4-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
2
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

Panel PC

OMNI-3125HTT-SKU-A1-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
5-wire Resistive
No

OMNI-3125HTT-SKU-A2-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A3-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
Intel® i5-6300U, 2.4 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

OMNI-3125HTT-SKU-A4-1110
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
Intel® Celeron® 3955U, 2 GHz
1
4
2
2.5" SATA HDD x 1
Mini-Card x 1 (Full Size)
VESA 100 Panel mount
DC 9~30V
-20°C~55°C with airflow
Projected capacitive
No

Panel Kit

OMNI-3125HTT-KIT-A1-1011
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
—
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—
—

OMNI-3125HTT-KIT-A2-1011
12.1" TFT LCD
1024 x 768
500 cd/m²
160°(H)
160°(V)
—
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CPU BOX Kit

OMNI-SKU-KIT-A1-1110
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OMNI-SKU-KIT-A2-1110
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OMNI-SKU-KIT-A3-1110
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OMNI-SKU-KIT-A4-1110
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Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Packing List

• Phoenix Power Connector
• OMNI-3125-SKU

Optional Accessories

• AP-OT9789LA1000 LCD Monitor Stand 230mm, LA-100
• 1702031802 Power Cord (US Type)
• 1702031803 Power Cord (European Type)
• 170203180E Power Cord (Japanese Type)
• 1255900849 12V 84W Power Adapter w/ 3pin Terminal Block
• AP-DR9D4004G00A 4GB Wide Temperature DRAM (~40°C ~ 85°C)
• 96BD40166Y 16GB Wide Temperature DRAM (~40°C ~ 85°C)

Wide Temperature DRAM

• 9D4008G001 8GB Wide Temperature DRAM (~40°C ~ 85°C)

**Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

Note: All specifications are subject to change without notice.
### OMNI-3155-SKU

15” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor

### Features
- 15” (1024 x 768) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

### Specifications
#### System
- **Processor**: Intel® i5-6300U processor, 2.4 GHz
  - Intel® Celeron® 3955U processor, 2.0 GHz
- **System Memory**: 260-pin DDR4 SODIMM x 1, up to 16 GB
- **LCD/CRT Controller**: Integrated in processor
- **Ethernet**: Intel® I211, 10/100/1000 Base-TX x 1
- **I/O Port**:
  - USB 3.2 Gen 1 Type A x 4
  - SMA Antenna hole x 1
  - HDMI x 1
  - DB-9 Type RS-232/422/485 x 2
  - RJ-45 Type 10/100/1000 Base-TX x 1
  - 3-pin terminal block x 1 for 9~30 Vdc power input
  - LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)
- **Storage Disk Drive**: 2.5” SATA HDD bay x 1
- **Expansion Slot**: Full Size Mini card x 1, SIM card x 1, OMNI I/O connector x 1
- **OS support**: Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher

#### Mechanical
- **Construction**: Aluminum design (IP65 Front Frame)
- **Mounting**: VESA 100/ Panel Mount
- **Dimension**: 14.53” x 12.36” x 2.79” (369mm x 314mm x 71 mm)
- **Carton Dimension**: 20.08” x 9.84” x 18.11” (510mm x 250mm x 460mm)
- **Gross Weight**: 14.3 lb (6.5 kg)

#### Environmental
- **Operating Temperature**: -4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
- **Storage Temperature**: -4°F ~ 158°F (-20°C ~ 70°C)
- **Storage Humidity**: 90% @40°C; non-condensing
- **Vibration**: 1 G rms/ 5 ~ 500Hz / operation – with HDD
- **Shock**: 15 G peak acceleration (11 msec. duration) – with HDD
- **EMC**: CE/FCC class A

#### Power Supply
- **DC input**: DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function

#### LCD
- **Display Type**: 15” TFT-LCD, LED
- **Max Resolution**: 1024 (H) x 768 (V)
- **Max. Colors**: 16.2M (8bit/color)
- **Luminance**: 300 cd/m²
- **Viewing Angle**: 176° (H), 176° (V)
- **Back Light**: LED
- **Back Light MTBF (Hours)**: 70,000

#### Touchscreen
- **Type**: P-CAP/ 5-wire resistive
- **Light Transmission**: P-CAP (90% ± 2%), 5-wire Resistive (80% ± 2%)

Note: All specifications are subject to change without notice.
### Dimension

<table>
<thead>
<tr>
<th>OMNI-3155-SKU</th>
</tr>
</thead>
</table>

**Cutout Dimension = 355*290mm**

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>RAM</th>
<th>Storage</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp.</th>
<th>Touch</th>
<th>OMNI I/O Module Support</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15&quot; TFT LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>Intel® i3-6100U, 2.4 GHz</td>
<td>4 GB</td>
<td>1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>Resitive</td>
</tr>
<tr>
<td></td>
<td>15&quot; TFT LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>Intel® Celeron® 2.4 GHz</td>
<td>4 GB</td>
<td>1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>Resitive</td>
</tr>
<tr>
<td></td>
<td>15&quot; TFT LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>Intel® Celeron® 2.4 GHz</td>
<td>4 GB</td>
<td>1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>Resitive</td>
</tr>
<tr>
<td></td>
<td>15&quot; TFT LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>Intel® Celeron® 2.4 GHz</td>
<td>4 GB</td>
<td>1</td>
<td>DDR4, up to 16GB</td>
<td>HDMI x 1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C~55°C with airflow</td>
<td>Resitive</td>
</tr>
</tbody>
</table>

**Note:** 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

### Packing List

- Phoenix Power Connector
- OMNI-3155-SKU

### Optional Accessories

- AP-OT9789LA1000
  LCD Monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 1702031805
  Power Cord (Japanese Type)
- 1255900849
  12V 84W Power Adapter w/3pin Terminal Block

### OMNI Module (with AAEON Interface)

- 9741215501
  Mini Card x 2, SIM x 2 Module
- 9741215502
  Dual LAN Module
- 9741215506
  DIO Module
- 9741215508
  Audio Module
- 9741215510
  HDMI Kit (Europe Limitation)
- 9741215512
  Wi-Fi 802.11b/g/n Module
- 9741215513
  RS-485/422/232 x 2 Module
- 9741215515
  USB / COM / LAN Module
- 9741215516
  RS-485/422/232 x 4 Module
- 9741215517
  Isolation RS-485/422/232 x 4 Module
- 9741215518
  RS-485/422/232 x 2, DIO x 16 Module

### Wide Temperature DRAM

- AP-DRD4004G00A
  4GB Wide Temperature DRAM (-40°C – 85°C)
- 9D4008G001
  8GB Wide Temperature DRAM (-40°C – 85°C)
- 96BD4016G07
  16GB Wide Temperature DRAM (-40°C – 85°C)

**Note:** Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel PC is to be operated at over 40°C.

### Note:
All specifications are subject to change without notice.

www.aaeon.com
**OMNI-3175-SKU**

**17” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor**

## Features
- 17” (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

## Specifications

### System
- **Processor**
  - Intel® i5-6300U processor, 2.4 GHz
  - Intel® Celeron® C-3955U processor, 2.0 GHz
- **System Memory**
  - 260-pin DDR4 SO-DIMM x 1, up to 16 GB
- **LCD/CRT Controller**
  - Integrated in processor
- **Ethernet**
  - Intel® I211, 10/100/1000 Base-TX x 1
- **I/O Port**
  - USB 3.2 Gen 1 Type A x 4
  - SMA Antenna hole x 1
  - HDMI x 1
  - DB-9 Type RS-232/422/485 x 2
  - RJ-45 Type 10/100/1000 Base-TX x 1
  - 3-pin terminal block x 1 for 9~30 Vdc power input
  - LED Power on/off switch x 1 (Power on = Orange, Power off = N/A)
- **Storage Disk Drive**
  - 2.5” SATA HDD bay x 1
- **Expansion Slot**
  - Full Size Mini card x 1
  - SIM card x 1
  - OMNI I/O connector x 1
- **OS support**
  - Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher

### Mechanical
- **Construction**
  - Aluminum design (IP65 Front Frame)
- **Mounting**
  - VESA 100 / Panel Mount
- **Dimension**
  - 16.14” x 14.57” x 2.32” (410mm x 370mm x 59mm)
- **Carton Dimension**
  - 20.55” x 10.31” x 19.29” (522mm x 262mm x 490mm)
- **Gross Weight**
  - 16.28 lb (7.4 kg)

### Environmental
- **Operating Temperature**
  - -4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
- **Storage Temperature**
  - -4°F ~ 158°F (-20°C ~ 70°C)
- **Storage Humidity**
  - 90% @40°C; non-condensing
- **Vibration**
  - 1 Gms/ 5~500Hz /operation – with HDD
- **Shock**
  - 15 G peak acceleration (11 msec. duration) – with HDD
- **EMC**
  - CE/FCC class A

### Power Supply
- **DC input**
  - DC 9 (min.) – 30 (max.) V w/3-pin terminal block, ATX Power function

### LCD
- **Display Type**
  - 17” TFT-LCD, LED
- **Max Resolution**
  - 1280 (H) x 1024 (V)
- **Max. Colors**
  - 16.7M colors (RGB 6-bits + Hi-FRC data)
- **Luminance**
  - 350 cd/m²
- **Viewing Angle**
  - 170 (H), 160 (V)
- **Back Light**
  - LED
- **Back Light MTBF (Hours)**
  - 50,000

### Touchscreen
- **Type**
  - P-CAP/ 5-wire resistive
- **Light Transmission**
  - P-CAP (80% ± 3%), 5-wire Resistive (80% ± 3%)

*Note: All specifications are subject to change without notice.*
**OMNI-3175-SKU**

### Dimension

Unit: mm

![OMNI-3175-SKU](image)

Cutout Dimension = 385*323mm

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>CPU</th>
<th>LAN</th>
<th>USB 3.2 Gen 1</th>
<th>RS-232/422/485</th>
<th>Storage</th>
<th>RAM</th>
<th>Display</th>
<th>Internal Expansion</th>
<th>Mounting</th>
<th>Power</th>
<th>Operating Temp</th>
<th>Touch</th>
<th>OMNI U/O Module Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-3175TT-SKU-A1-1111</td>
<td>17” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170° (H) 160° (V)</td>
<td>Intel® i5-6300U, 2.4 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HM1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 10U/16U Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C ~ 55°C with airflow</td>
<td>5-wire Resistive</td>
<td>Yes</td>
</tr>
<tr>
<td>OMNI-3175TT-SKU-A1-1111</td>
<td>17” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170° (H) 160° (V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HM1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 10U/16U Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C ~ 55°C with airflow</td>
<td>5-wire Resistive</td>
<td>Yes</td>
</tr>
<tr>
<td>OMNI-3175TT-SKU-A1-1111</td>
<td>17” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170° (H) 160° (V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HM1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 10U/16U Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C ~ 55°C with airflow</td>
<td>Projected capacitive</td>
<td>Yes</td>
</tr>
<tr>
<td>OMNI-3175TT-SKU-A1-1111</td>
<td>17” TFT LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>170° (H) 160° (V)</td>
<td>Intel® Celeron® 3955U, 2 GHz</td>
<td>1</td>
<td>4</td>
<td>2</td>
<td>2.5” SATA HDD x 1</td>
<td>DDR4, up to 16GB</td>
<td>HM1</td>
<td>Mini-Card x 1 (Full Size)</td>
<td>VESA 10U/16U Panel mount</td>
<td>DC 9–30V</td>
<td>-20°C ~ 55°C with airflow</td>
<td>Projected capacitive</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Packing List

- Phoenix Power Connector
- OMNI-3175-SKU

### Optional Accessories

- AP-OT9789LA1000
  LCD Monitor Stand 230mm, LA-100
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 1702031804
  Power Cord (Japanese Type)
- 1255900849
  12V 84W Power Adapter w/ 3pin Terminal Block
- 9741215501
  Mini Card x 2, SIM x 2 Module
- 9741215502
  Dual LAN Module
- 9741215506
  DIO Module
- 9741215508
  Audio Module
- 9741215510
  HMS Kit (Europe Limitation)
- 9741215512
  WiFi 802.11/b/g/n Module
- 9741215513
  RS-485/422/232 x 2 Module
- 9741215515
  USB / COM / LAN Module
- 9741215516
  RS-485/422/232 x 4 Module
- 9741215517
  Isolation RS-485/422/232 x 4 Module
- 9741215518
  RS-485/422/232 x 2, DIO x 16 Module

### OMNI Module (with AAEON Interface)

- 9741215501
- 9741215510
- 9741215512
- 9741215513
- 9741215515
- 9741215516
- 9741215517
- 9741215518

### Wide Temperature DRAM

- AP-DR9D404G0A
  4GR Wide Temperature DRAM (-40° C ~ 85° C)
- 9D4006G001
  8GR Wide Temperature DRAM (-40° C ~ 85° C)
- 968D4016GY
  16GR Wide Temperature DRAM (-40° C ~ 85° C)

**Note:** Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel pc is to be operated at over 40°C.

### OMNI Series : Modular Touch Panel Solutions

Note: All specifications are subject to change without notice.

www.aaeon.com 06-22
OMNI-3195-SKU
19” Modular HMI Panel PC with 6th Generation Intel® Core™ i5-6300U/C-3955U Processor

Features
- 19” (1280 x 1024) TFT LCD Display
- Intel® 6th Generation i5-6300U/C-3955U Processor
- P-CAP or Resistive Touch Screen Support
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- Easily Expandable I/O by AAEON OMNI I/O Modules

Specifications

System
- Processor: Intel® i5-6300U processor, 2.4 GHz
- Intel® Celeron® 3955U processor, 2.0 GHz
- System Memory: 260-pin DDR4 SODIMM x 1, up to 16 GB
- LCD/CRT Controller: Integrated in processor
- Ethernet: Intel® I211, 10/100/1000 Base-TX x 1
- I/O Port: USB 3.2 Gen 1 Type A x 4
- SMA Antenna hole x 1
- HDMI x 1
- DB-9 Type RS-232/422/485 x 2
- RJ-45 Type 10/100/1000Base-T x 1
- Power On/Off switch x 1 (Power on = Orange, Power off = N/A)
- Storage Disk Drive: 2.5” SATA HDD bay x 1
- Expansion Slot: Full Size Mini card x 1
- SIM card x 1
- OMNI I/O connector x 1
- OS support: Windows® 8.1, Windows® 10 (64 bit), Linux kernel 2.6.x or higher

Mechanical
- Construction: Aluminum design (IP65 Front Frame)
- Mounting: VESA 100 / Panel Mount
- Dimension: 18.14” x 16.14” x 2.83” (460.8mm x 410mm x 72 mm)
- Carton Dimension: 26.02” x 8.11” x 19.53” (661mm x 206mm x 496mm)
- Gross Weight: 20.06 lb (9.1 kg)

Environmental
- Operating Temperature: -4°F ~ 131°F (-20°C ~ 55°C) with 0.5 m/s airflow (Industrial Grade HDD)
- Storage Temperature: -4°F ~ 158°F (-20°C ~ 70°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 1 Gms/ 5~ 500Hz/ operation – with HDD
- Shock: 15 G peak acceleration (11 msec. duration) – with HDD
- EMC: CE/FCC class A

Power Supply
- DC input: DC 9 (min.) ~ 30 (max.) V w/3-pin terminal block, ATX Power function

LCD
- Display Type: 17” TFT-LCD, LED
- Max Resolution: 1280 (H) x 1024 (V)
- Max. Colors: 16.7M colors (RGB 6-bits + Hi-FRC data)
- Luminance: 350 cd/m²
- Viewing Angle: 170 (H), 160 (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

Touchscreen
- Type: P-CAP/ 5-wire resistive
- Light Transmission: P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Note: All specifications are subject to change without notice.
OMNI-3195-SKU

OMNI Series: Modular Touch Panel Solutions

Packing List

- Phoenix Power Connector
- OMNI-3195-SKU

Optional Accessories

- AP-0T979LA1000 Power Cord (US Type)
- 1702031803 Power Cord (European Type)
- 1702031802 Power Cord (Japanese Type)
- 1255900849 12V 84W Power Adapter w/ 3pin Terminal Block
- 1702031801 Power Cord (Japanese Type)

OMNI Module (with AAEON Interface)

- 9741215501 Mini Card x 2, SIM x 2 Module
- 9741215502 Dual LAN Module
- 9741215506 DIMM Module
- 9741215508 Audio Module
- 9741215510 HMG Kit (Europe Limitation)
- 9741215512 WiFi 802.11b/g/n Module
- 9741215513 RS-485/422/232 x 2 Module
- 9741215515 USB / COM / LAN Module
- 9741215516 RS-485/422/232 x 4 Module
- 9741215517 Isolation RS-485/422/232 x 4 Module
- 9741215518 RS-485/422/232 x 2, DIMM x 16 Module

Wide Temperature DRAM

- AP-DR9D4004G00A 4GB Wide Temperature DRAM (-40°C ~ 85°C)
- 9D4008G00 8GB Wide Temperature DRAM (-40°C ~ 85°C)
- 96BD4016GY 16GB Wide Temperature DRAM (-40°C ~ 85°C)

*Users should select the wide temperature DRAM above and use wide temperature storage devices if the OMNI panel PC is to be operated at over 40°C.

Note: 1. AAEON OMNI Modular display kit only workable for OMNI-BOX Kit 2. RAM not included

Note: All specifications are subject to change without notice.
OMNI Series : Modular Touch Panel Solutions

OMNI Series : Modular Touch Panel Solutions

OMNI-3155-ADP

15” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Note: All specifications are subject to change without notice.

Features

- 15” (1024 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

Launching in Q1 2022

<table>
<thead>
<tr>
<th>System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Alder Lake-P i7/i5/i3/Celeron CPU</td>
</tr>
<tr>
<td>System Memory</td>
<td>DDR5 4800 MHz, Dual Channel SODIMM x 2</td>
</tr>
<tr>
<td>LCD/CRT Controller</td>
<td>—</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® i210/i211, 10/100/1000Base Intel® i215, 10/100/1000/2500Base</td>
</tr>
<tr>
<td>I/O Port</td>
<td>RJ45 LAN x2 USB Type A USB 3.2 Gen2 x3 USB Type C x1 HDMI 2.0b x1 Audio x1 D89 COM RS-232/422/485 x2</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA-III x1 (6 Gb/s, for 2.5” SATA drive bay) M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>B-Key 3052 x 1 (8G Optional: PCIe x 2), default: USB3.2 Gen2+ SATA E-Key 2230 x 1 (PCIe, USB2.0)</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows 10/Windows 11/Linux</td>
</tr>
</tbody>
</table>

Mechanical

- Construction: Aluminum Front Bezel + Metal Chassis
- Mounting: VESA / Panel Mount
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

Environmental

- Operating Temperature: -4°F ~ 122°F (-20°C ~ 50°C) with airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 90% @ 40°C, non-condensing
- Vibration: 1Grms / 5~500Hz / operation
- Shock: 15 G peak acceleration (11 msec. duration)
- EMC: CE/FCC Class A

Power Supply

- DC input: DC 9 ~ 36V

LCD

- Display Type: 15” TFT-LCD, LED
- Max Resolution: 1024(H) x 768(V)
- Max. Colors: 16.2M (8 bit/color)
- Luminance: 300 cd/m²
- Viewing Angle: 176° (H), 176° (V)
- Back Light: LED
- Back Light MTBF (Hours): 70,000

Touchscreen

- Type: P-CAP 5-wire resistive
- Light Transmission: P-CAP (80% ± 2%), 5-wire Resistive (80% ± 2%)
OMNI-3155-ADP

Dimension
Unit: mm

Optional Accessories
• TBD

Packing List
• TBD

Ordering Information
• TBD

Note: All specifications are subject to change without notice.
OMNI-2155-ADP PRELIMINARY

15.6” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

OMNI Series : Modular Touch Panel Solutions

Launching in Q1

Features

- 15.6” (1366 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

Optional Accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD

Note: All specifications are subject to change without notice.
21.5” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Features

- 21.5” (1920 x 1080) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

optional accessories

- TBD

Packing List

- TBD

Ordering Information

- TBD
OMNI Series : Modular Touch Panel Solutions

OMNI-3125-ADP PRELIMINARY

12.1” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features
- 12.1” (1024 x 768) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU (max. 15W TDP)
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

System
- Processor: Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- System Memory: DDR5 4800 MHz, Dual Channel SODIMM x 2
- LCD/CRT Controller: —
- Ethernet: Intel® i210/i211, 10/100/1000Base
- USB: USB Type A USB 3.2 Gen2 x3, USB Type C x1, HDMI 2.0b x 1
- Audio: 1
- DB9 COM RS-232/422/485 x2
- Storage Disk Drive: 2.5” SATA-III x1 (6 Gb/s, for 2.5” SATA drive bay)
- Expansion Slot: B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gen2+SATA 2230 x 1 (PCIe, USB2.0)
- OS support: Windows 10/Windows 11/Linux

Mechanical
- Construction: Aluminum Front Bezel + Metal Chassis
- Mounting: VESA / Panel Mount
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

Environmental
- Operating Temperature: -4°F–122°F (-20°C~50°C) with airflow
- Storage Temperature: -4°F–140°F (-20°C~60°C)
- Storage Humidity: 90% @40°C, non-condensing
- Vibration: 1Gms / 5–500Hz / operation
- Shock: 15 G peak acceleration (11 msec. duration)
- EMC: CE/FCC Class A Compatible

Power Supply
- DC input: DC 9–36V

LCD
- Display Type: 12.1” TFT-LCD, LED
- Max Resolution: 1024(H) x 768(V)
- Max. Colors: 16.2M colors
- Luminance: 500 cd/m²
- Viewing Angle: 160° (H); 160° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000 Hrs

Touchscreen
- Type: P-CAP/ 5-wire resistive
- Light Transmission: P-CAP (80% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories
- TBD

Packing List
- TBD

Ordering Information
- TBD

Note: All specifications are subject to change without notice.
OMNI Series : Modular Touch Panel Solutions

OMNI-3175-ADP
17” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features
- 17” (1280 x 1024) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 - 36V DC in a wide range of input

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Processor</th>
<th>Intel® Alder Lake-P i7/i5/i3/Celeron CPU</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Memory</td>
<td>DDR5 4800 MHz, Dual Channel SODIMM x 2</td>
<td></td>
</tr>
<tr>
<td>LCD/CRT Controller</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>Ethernet</td>
<td>Intel® 210/211, 10/100/1000Base</td>
<td>Intel® 225, 10/100/1000/2500Base</td>
</tr>
<tr>
<td>I/O Port</td>
<td>RJ45 LAN x2</td>
<td>USB Type A USB 3.2 Gen2 x3</td>
</tr>
<tr>
<td></td>
<td>USB Type C x1</td>
<td>HDMI 2.0b x1</td>
</tr>
<tr>
<td></td>
<td>Audio x1</td>
<td>DSub COM RS-232/422/485 x2</td>
</tr>
<tr>
<td>Storage Disk Drive</td>
<td>2.5” SATA-III x1 (6 Gb/s, for 2.5” SATA drive bay)</td>
<td>M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)</td>
</tr>
<tr>
<td>Expansion Slot</td>
<td>B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gen2+ SATA</td>
<td>E-Key x230 x 1 (PCIe, USB2.0)</td>
</tr>
<tr>
<td>OS support</td>
<td>Windows 10/11/Linux</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical

Construction: Aluminum Front Bezel + Metal Chassis
Mounting: VESA / Panel Mount
Dimension: TBD
Carton Dimension: TBD
Gross Weight: TBD

Environmental

Operating Temperature: -4°F~122°F (-20°C~50°C) with airflow
Storage Temperature: -4°F~140°F(-20°C~60°C)
Storage Humidity: 90% @40°C; non-condensing
Vibration: 10gms / 5 – 500Hz / operation
Shock: 15 G peak acceleration (11 msec. duration)
EMC: CE/FCC Class A Compatible

Power Supply

DC input: DC 9 – 36V

LCD

Display Type: 17” TFT-LCD, LED
Max Resolution: 1280(H) x 1024(V)
Max. Colors: 16.7M colors (RGB 6-bits + Hi-FRC data)
Luminance: 350 cd/m²
Viewing Angle: 170° (H), 160° (V)
Back Light: LED
Back Light MTBF (Hours): 50,000

Touchscreen

Type: P-CAP/ 5-wire resistive
Light Transmission: P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)

Optional Accessories

• TBD

Packing List

• TBD

Ordering Information

• TBD

Note: All specifications are subject to change without notice.
OMNISeries: Modular Touch Panel Solutions

OMNI-3195-ADP PRELIMINARY

19” Modular HMI Panel PC with Intel® Alder Lake-P i7/i5/i3/Celeron Processor

Launching in Q1

Features
- 19” (1280 x 1024) TFT LCD Display
- Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- P-CAP or Resistive Touch Screen Support
- M.2 PCIe x 4 SSD
- Aluminum Design
- IP65 Compliant Front Bezel
- Fanless Operation
- VESA Mount/ Built-in Panel Mount Bracket
- 9 ~ 36V DC in a wide range of input

Specifications

System
- Processor: Intel® Alder Lake-P i7/i5/i3/Celeron CPU
- System Memory: DDR5 4800 MHz, Dual Channel SODIMM x 2
- LCD/CRT Controller: —
- Ethernet: Intel® i210/i211, 10/100/1000Base
  - Intel® i225, 10/100/1000/2500Base
- I/O Port:
  - RJ45 LAN x2
  - USB Type A USB 3.2 Gen2 x3
  - USB Type C x1
  - HDMI 2.0b x1
  - Audio x1
  - DB9 COM RS-232/422/485 x2
- Storage Disk Drive:
  - 2.5” SATA-III x1 (6 Gb/s, for 2.5” SATA drive bay)
  - M.2 2280 NVMe x1 (For PCIe4 NVMe Storage)
- Expansion Slot:
  - B-Key 3052 x 1 (BOM Optional: PCIe x 2), default: USB3.2 Gne2+SATA
  - E-Key 2230 x 1 (PCIe, USB2.0)
- OS support: Windows 10/11/Linux

Mechanical
- Construction: Aluminum Front Bezel + Metal Chassis
- Mounting: VESA / Panel Mount
- Dimension: TBD
- Carton Dimension: TBD
- Gross Weight: TBD

Environmental
- Operating Temperature: -4°F~122°F (-20°C~50°C) with airflow
- Storage Temperature: -4°F~140°F (-20°C~60°C)
- Storage Humidity: 90% @40°C; non-condensing
- Vibration: 10gms / 5~500Hz / operation
- Shock: 15 G peak acceleration (11 msec. duration)
- EMC: CE/FCC Class A Compatible

Power Supply
- DC input: DC 9~36V

LCD
- Display Type: 19” TFT-LCD, LED
- Max Resolution: 1280(H) x 1024(V)
- Max. Colors: 16.7M colors
- Luminance: 350 cd/m²
- Viewing Angle: 170° (H), 160° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

Touchscreen
- Type: P-CAP/ 5-wire resistive
- Light Transmission: P-CAP (80% ± 3%), 5-wire Resitve (80% ± 3%)

Optional Accessories
- TBD

Packing List
- TBD

Ordering Information
- TBD

Note: All specifications are subject to change without notice.
Focus · Agility · Competitiveness
OMNI-215M
15.6” Touch Display Monitor, DC 12–30V

Features
- 15.6” WXGA (1366 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12–30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Input Signal</th>
<th>VGA/HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Screen Display Control</td>
<td>5 keys OSD keypad (Up, Down, Menu, Auto, Power)</td>
<td></td>
</tr>
<tr>
<td>I/O Port</td>
<td>DB-15 VGA x 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HDMI x 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>USB x 1 (For Enable T/S Function)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Line in x 1 (For optional internal Speaker)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Power Input x 1 (Terminal Block 3pin)</td>
<td></td>
</tr>
<tr>
<td>Os Support</td>
<td>Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04</td>
<td></td>
</tr>
</tbody>
</table>

Mechanical

| Construction | IP65 aluminum front bezel & SGCC chassis |
| Mounting | Panel Mount / VESA 100x100 / Stand |
| Dimension | 16.5” x 10.4” x 2.4” (420.2mm x 264.5mm x 60.2mm) |
| Carton Dimension | 20.9” x 17.5” x 7.9” (530mm x 445mm x 200mm) |
| Gross Weight | 14.1 lbs (6.4 kg) |
| Net Weight | 11.2 lbs (5.1 kg) |

Environmental

| Operating Temperature | 14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow |
| Storage Temperature | -4°F ~ 140°F (-20°C ~ 60°C) |
| Storage Humidity | 10%~90% @40°F (40%) non-condensing |
| Vibration | 1 Grms / 5–500Hz/random Operation |
| Shock | — |
| EMC | CE/FCC, Class A |

Power Supply

| DC Input | DC 12–30V Power Input with 3 Pin Terminal Block |

LCD

| Display Type | 15.6” TFT-LCD |
| Max. Resolution | 1366 x 768 |
| Max. Colors | 16.7M |
| Luminance | 400 cd/m² |
| Viewing Angle | 170° (H), 160° (V) |
| Back Light | LED |
| Back Light MTBF (Hours) | 50,000 |

Touchscreen

| Type | Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model) |
| Light Transmission | P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%) |
| Life Time | — |

Note: All specifications are subject to change without notice.
OMNI Series: Modular Display Solutions

Dimension
Unit: mm

Cutout Dimension: 390 x 240mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-215MHTT-A1-1010</td>
<td>15.6&quot; TFT-LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160(H), 140(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>-5°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Flat 5 Wire Resistive —</td>
</tr>
<tr>
<td>OMNI-215MHTT-A2-1011</td>
<td>15.6&quot; TFT-LCD</td>
<td>1366 x 768</td>
<td>400 cd/m²</td>
<td>160(H), 140(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>-5°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive —</td>
</tr>
</tbody>
</table>

Packaging List
- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-215M

Optional Accessories
- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-079789LA1000
  LCD Monitor Stand 230mm, LA-100

Note: All specifications are subject to change without notice.
OMNI-221M
21.5” Touch Display Monitor, DC 12~30V

Features
- 21.5” FHD (1920 x 1080) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

System
- Input Signal: VGA/HDMI
- On Screen Display Control: 5 keys OSD keypad (Up, Down, Menu, Auto, Power)
- I/O Port: DB-15 VGA x 1, HDMI x 1, USB x 1 (For optional internal Speaker), Power Input x 1 (Terminal Block 3pin)

Mechanical
- Construction: IP65 aluminum front bezel & SGCC chassis
- Mounting: Panel Mount / VESA 100 x 100 / Stand
- Dimension: 21.6” x 14.6” x 2.1” (549mm x 372mm x 53mm)
- Carton Dimension: 26.4” x 20.7” x 7.9” (670mm x 525mm x 200mm)
- Gross Weight: 18.5 lbs (8.4 kg)
- Net Weight: 15.4 lbs (7.0 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 10%~90% @104°F (40°C); non-condensing
- Vibration: 1 Gms / 5~500Hz/random Operation
- Shock: —
- EMC: CE/FCC, Class A

Power Supply
- DC Input: DC 12~30V Power Input with 3 Pin Terminal Block

LCD
- Display Type: 21.5” TFT-LCD
- Max. Resolution: 1920 x 1080
- Max. Colors: 16.7M
- Luminance: 250 cd/m²
- Viewing Angle: 178° (H), 178° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

Touchscreen
- Type: Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
- Light Transmission: P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
- Life Time: —

Note: All specifications are subject to change without notice.
OMNI Series: Modular Display Solutions

Dimension

Unit: mm

Cutout Dimension: 525 x 350mm

Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-221MHTT-A1-1011</td>
<td>21.5&quot; TFT-LCD</td>
<td>1920 x 1080</td>
<td>250 cd/m²</td>
<td>178(H), 178(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F – 131°F (–10°C – 55°C) (with 0.5 m/s airflow)</td>
<td>Flat 5 Wire Resistive</td>
</tr>
<tr>
<td>OMNI-221MHTT-A2-1011</td>
<td>21.5&quot; TFT-LCD</td>
<td>1920 x 1080</td>
<td>250 cd/m²</td>
<td>178(H), 178(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F – 131°F (–10°C – 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive</td>
</tr>
</tbody>
</table>

Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-221M

Optional Accessories

- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-07T978S4LA1000
  LCD Monitor Stand 230mm, LA-100

Note: All specifications are subject to change without notice.

www.aeon.com
OMNI-S310M
10.4" Touch Display Monitor, DC 12~30V

Features
- 10.4" SVGA (800 x 600) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>Input Signal</th>
<th>VGA / HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Screen Display Control</td>
<td>5 keys OSD keypad (Up, Down, Menu, Auto, Power)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I/O Port</th>
<th>DB-15 VGA x 1</th>
<th>HDMI x 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB x 1 (For Enable T/S Function)</td>
<td>Line in x 1 (For optional internal Speaker)</td>
<td></td>
</tr>
<tr>
<td>Power Input x 1 (Terminal Block 3pin)</td>
<td></td>
<td></td>
</tr>
</tbody>
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| Os Support | Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04 |

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Construction</th>
<th>IP65 aluminum front bezel &amp; SGCC chassis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>Panel Mount / VESA 100 x 100 / Stand</td>
<td></td>
</tr>
<tr>
<td>Dimension</td>
<td>11.0&quot; x 9.4&quot; x 2.33&quot; (280mm x 239.3mm x 59.1mm)</td>
<td></td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>16.3&quot; x 15.4&quot; x 7.04&quot; (415mm x 391mm x 179mm)</td>
<td></td>
</tr>
<tr>
<td>Gross Weight</td>
<td>7.9 lbs (3.6 kg)</td>
<td></td>
</tr>
<tr>
<td>Net Weight</td>
<td>1.1 lbs (2.4 kg)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Operating Temperature</th>
<th>14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 140°F (-20°C ~ 60°C)</td>
<td></td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%~90% @104°F (40°C); non-condensing</td>
<td></td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Grms / 5~500Hz/random Operation</td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC, Class A</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>DC Input</th>
<th>DC 12~30V Power Input with 3 Pin Terminal Block</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>LCD</th>
<th>Display Type</th>
<th>10.4&quot; TFT-LCD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Resolution</td>
<td>800 x 600</td>
<td></td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M</td>
<td></td>
</tr>
<tr>
<td>Luminance</td>
<td>230 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>160° (H), 130° (V)</td>
<td></td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td>Back Light MTBF (Hours)</td>
<td>30,000</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Touchscreen</th>
<th>Type</th>
<th>Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Transmission</td>
<td>P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)</td>
<td></td>
</tr>
<tr>
<td>Life Time</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>

Note: All specifications are subject to change without notice.
## OMNI Series: Modular Display Solutions

### Dimension

**Unit: mm**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Unit: mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>280.0</td>
<td></td>
</tr>
<tr>
<td>231.6</td>
<td></td>
</tr>
<tr>
<td>182.6</td>
<td></td>
</tr>
<tr>
<td>59.1</td>
<td></td>
</tr>
<tr>
<td>28.0</td>
<td></td>
</tr>
<tr>
<td>129.7</td>
<td></td>
</tr>
<tr>
<td>100.0</td>
<td></td>
</tr>
</tbody>
</table>

**Cutout Dimension:** 256 x 207mm

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-310MHTT-A1-1010</td>
<td>10.4” TFT-LCD</td>
<td>800 x 600</td>
<td>230 cd/m²</td>
<td>120(H), 100(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>12V~30V</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Flat Wire Resistive</td>
</tr>
<tr>
<td>OMNI-310MHTT-A2-1010</td>
<td>10.4” TFT-LCD</td>
<td>800 x 600</td>
<td>230 cd/m²</td>
<td>120(H), 100(V)</td>
<td>50,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>12V~30V</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive</td>
</tr>
</tbody>
</table>

### Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-310M

### Optional Accessories

- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)

- 170203180E
  Power Cord (Japanese Type)
- AP-0T9789LA1000
  LCD Monitor Stand 230mm, LA-100

Note: All specifications are subject to change without notice.

www.aaeon.com
### Features
- 12.1” XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

### Specifications

<table>
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<th>System</th>
<th></th>
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<tbody>
<tr>
<td>Input Signal</td>
<td>VGA / HDMI</td>
</tr>
<tr>
<td>On Screen Display Control</td>
<td>5 keys OSD keypad (Up, Down, Menu, Auto, Power)</td>
</tr>
<tr>
<td>I/O Port</td>
<td>DB-15 VGA x 1, HDMI x 1, USB x 1 (For Enable T/S Function), Line in x 1 (For optional internal Speaker), Power Input x 1 (Terminal Block 3pin)</td>
</tr>
<tr>
<td>OS Support</td>
<td>Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>IP65 aluminum front bezel &amp; SGCC chassis</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount / VESA 100 x 100 / Stand</td>
</tr>
<tr>
<td>Dimension</td>
<td>12.9” x 11.3” x 2.2” (328.5mm x 288.1mm x 55.9mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>20.9” x 17.5” x 7.9” (530mm x 445mm x 200mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>10.4 lbs (4.7 kg)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>7.7 lbs (3.5 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-4°F ~ 140°F (-20°C ~ 60°C)</td>
</tr>
<tr>
<td>Storage Humidity</td>
<td>10%~90% @104°F (40°C); non-condensing</td>
</tr>
<tr>
<td>Vibration</td>
<td>1 Grms / 5~500Hz/random Operation</td>
</tr>
<tr>
<td>Shock</td>
<td>---</td>
</tr>
<tr>
<td>EMC</td>
<td>CE/FCC, Class A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Supply</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Input</td>
<td>DC 12~30V Power Input with 3 Pin Terminal Block</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LCD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Type</td>
<td>12.1” TFT-LCD</td>
</tr>
<tr>
<td>Max. Resolution</td>
<td>1024 x 768</td>
</tr>
<tr>
<td>Max. Colors</td>
<td>16.2M</td>
</tr>
<tr>
<td>Luminance</td>
<td>500 cd/m²</td>
</tr>
<tr>
<td>Viewing Angle</td>
<td>160° (H), 160° (V)</td>
</tr>
<tr>
<td>Back Light</td>
<td>LED</td>
</tr>
<tr>
<td>Back Light MTBF (Hours)</td>
<td>50,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Touchscreen</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)</td>
</tr>
<tr>
<td>Life Time</td>
<td>---</td>
</tr>
</tbody>
</table>
### OMNI Series: Modular Display Solutions

#### Dimension

Unit: mm

![Dimension Diagram]

Cutout Dimension: 305 x 243mm

#### Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-312MH-T-A1-1010</td>
<td>12.1&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>500 cd/m²</td>
<td>160(H), 160(V)</td>
<td>50,000</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V–30V</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Flat 5 Wire Resistive</td>
<td>—</td>
</tr>
<tr>
<td>OMNI-312MH-T-A2-1010</td>
<td>12.1&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>500 cd/m²</td>
<td>160(H), 160(V)</td>
<td>50,000</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V–30V</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive</td>
<td>—</td>
</tr>
</tbody>
</table>

#### Packing List

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-312M

#### Optional Accessories

- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-079789LA1000
  LCD Monitor Stand 230mm, LA-100

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Note: All specifications are subject to change without notice.

www.aeon.com
OMNI Series : Modular Display Solutions

OMNI-315M
15” Touch Display Monitor, DC 12~30V

Features
- 15” XGA (1024 x 768) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

System
- Input Signal: VGA / HDMI
- On Screen Display Control: 5 keys OSD keypad (Up, Down, Menu, Auto, Power)
- I/O Port:
  - D-15 VGA x 1
  - HDMI x 1
  - USB x 1 (For Enable T/S Function)
  - Line in x 1 (For optional internal Speaker)
  - Power Input x 1 (Terminal Block 3pin)

Mechanical
- Construction: IP65 aluminum front bezel & SGCC chassis
- Mounting: Panel Mount / VESA 100 x 100 / Stand
- Dimension: 14.5” x 12.4” x 2.3” (369mm x 314mm x 58mm)
- Carton Dimension: 20.1” x 18.1” x 9.8” (510mm x 460mm x 250mm)
- Gross Weight: 14 lbs (6.35 kg)
- Net Weight: 11.2 lbs (5.1 kg)

Environmental
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 10% ~ 90% @104°F (40°C); non-condensing
- Vibration: 1 Grms / 5~500Hz/random Operation
- Shock: —
- EMC: CE/FCC, Class A

Power Supply
- DC Input: DC 12~30V Power Input with 3 Pin Terminal Block

LCD
- Display Type: 15” TFT-LCD
- Max. Resolution: 1024 x 768
- Max. Colors: 16.2M (8bit/color)
- Luminance: 300 cd/m\(^2\)
- Viewing Angle: 176° (H), 176° (V)
- Back Light: LED
- Back Light MTBF (Hours): 70,000

Touchscreen
- Type: Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
- Light Transmission: P-CAP (90% ± 3%), 5-wire resistive (60% ± 3%)
- Life Time: —

Note: All specifications are subject to change without notice.
OMNI Series : Modular Display Solutions

**OMNI Series : Modular Display Solutions**

**OMNI-315M**

**Dimension**
Unit: mm

**Cutout Dimension: 355 x 290mm**

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-315MHTT-A1-1011</td>
<td>15&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>70,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F – 121°F (-10°C – 55°C) (with 0.5 m/s airflow)</td>
<td>Flat 5 Wire Resistive —</td>
</tr>
<tr>
<td>OMNI-315MHTT-A2-1011</td>
<td>15&quot; TFT-LCD</td>
<td>1024 x 768</td>
<td>300 cd/m²</td>
<td>176° (H), 176° (V)</td>
<td>70,000</td>
<td>VGA x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F – 121°F (-10°C – 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive —</td>
</tr>
</tbody>
</table>

**Packing List**

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-315M

**Optional Accessories**

- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-079789LA1000
  LCD Monitor Stand 230mm, LA-100

Note: All specifications are subject to change without notice.

www.aaeon.com
OMNI-317M
17” Touch Display Monitor, DC 12~30V

Features
- 17” SXGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

**System**
- Input Signal: VGA / HDMI
- On Screen Display Control: 5 keys DSO keypad (Up, Down, Menu, Auto, Power)
- I/O Port: D-15 VGA x 1, HDMI x 1, USB x 1 (For optional internal speaker), Power Input x 1 (Terminal Block 3pin)
- Os Support: Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 18.04

**Mechanical**
- Construction: IP65 aluminum front bezel & SGCC chassis
- Mounting: Panel Mount / VESA 100 x 100 / Stand
- Dimension: 16.1” x 14.6” x 2.3” (410mm x 370mm x 59.1mm)
- Carton Dimension: 20.6” x 19.3” x 10.3” (522mm x 490mm x 262mm)
- Gross Weight: 14.8 lbs (6.7 kg)
- Net Weight: 11.7 lbs (5.3 kg)

**Environmental**
- Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow
- Storage Temperature: -4°F ~ 140°F (-20°C ~ 60°C)
- Storage Humidity: 10%~90%@40°F (40°C); non-condensing
- Vibration: 1 Grms / 5~500Hz/random Operation
- Shock: —
- EMC: CE/FCC, Class A

**Power Supply**
- DC Input: DC 12~30V Power Input with 3 Pin Terminal Block

**LCD**
- Display Type: 17” TFT-LCD
- Max. Resolution: 1280 x 1024
- Max. Colors: 16.7M
- Luminance: 350 cd/m²
- Viewing Angle: 160° (H), 140° (V)
- Back Light: LED
- Back Light MTBF (Hours): 50,000

**Touchscreen**
- Type: Projective Capacitive Multi Touch or 5 Wire Resistive Touch Screen (By Model)
- Light Transmission: P-CAP (90% ± 3%), 5-wire Resistive (80% ± 3%)
- Life Time: —

Note: All specifications are subject to change without notice.
**Dimension**

Unit: mm

![Dimension Diagram]

**Cutout Dimension:** 385 x 323mm

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Display Type</th>
<th>Max. Resolution</th>
<th>Luminance</th>
<th>View Angle</th>
<th>Backlight MTBF (Hours)</th>
<th>Display</th>
<th>Mounting</th>
<th>Power</th>
<th>Temp.</th>
<th>Touch</th>
<th>Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMNI-317MHTT-A1-1011</td>
<td>17” TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>160°(H), 140°(V)</td>
<td>50,000</td>
<td>VGA x 1, HDMI x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F - 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Flat Screen Resistive</td>
</tr>
<tr>
<td>OMNI-317MHTT-A2-1010</td>
<td>17” TFT-LCD</td>
<td>1280 x 1024</td>
<td>350 cd/m²</td>
<td>160°(H), 140°(V)</td>
<td>50,000</td>
<td>VGA x 1, HDMI x 1</td>
<td>Panel mount</td>
<td>VESA 100</td>
<td>DC 12V~30V</td>
<td>14°F - 131°F (-10°C ~ 55°C) (with 0.5 m/s airflow)</td>
<td>Projected Capacitive</td>
</tr>
</tbody>
</table>

**Packing List**

- VGA Cable x 1
- USB Cable for Touch x 1
- Phoenix Power Connector
- OMNI-317M

**Optional Accessories**

- 125530040F
  12V 40W FSP040-DHAN3
- 1702031802
  Power Cord (US Type)
- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-0T9785LA1000
  LCD Monitor Stand 230mm, LA-100

*Note: All specifications are subject to change without notice.*
OMNI-319M

19” Touch Display Monitor, DC 12~30V

Features
- 19” SXGA (1280 x 1024) TFT LCD Display
- Provide Projective Capacitive Touch or Resistive Touch Screen
- IP65 Aluminum Front Bezel
- DC 12~30V with Over Voltage/Current, Under Voltage Protection
- Optional Built-in Speakers

Specifications

<table>
<thead>
<tr>
<th>System</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Signal</td>
<td>VGA / HDMI</td>
</tr>
<tr>
<td>On Screen Display Control</td>
<td>5 keys OSD keypad (Up, Down, Menu, Auto, Power)</td>
</tr>
<tr>
<td>I/O Port</td>
<td>DB-15 VGA x 1 &amp; HDMI x 1</td>
</tr>
<tr>
<td></td>
<td>USB x 1 (For Enable T/S Function)</td>
</tr>
<tr>
<td></td>
<td>Line in x 1 (For optional internal Speaker)</td>
</tr>
<tr>
<td></td>
<td>Power Input x 1 (Optional Jack Connector)</td>
</tr>
<tr>
<td>Os Support</td>
<td>Windows® 7 32/64-bit, Windows® 8 32/64-bit, Windows® 10 64-bit, Linux Ubuntu 16.04</td>
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<table>
<thead>
<tr>
<th>Mechanical</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Construction</td>
<td>IP65 aluminum front bezel &amp; SGCC chassis</td>
</tr>
<tr>
<td>Mounting</td>
<td>Panel Mount / VESA 100 x 100 / Stand</td>
</tr>
<tr>
<td>Dimension</td>
<td>18.1” x 16.1” x 2.3” (460.8mm x 410mm x 59.1mm)</td>
</tr>
<tr>
<td>Carton Dimension</td>
<td>26.0” x 19.5” x 8.1” (661mm x 496mm x 206mm)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>18.1 lbs (8.2 kg)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>15.2 lbs (6.9 kg)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
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<tbody>
<tr>
<td>Operating Temperature</td>
<td>14°F ~ 131°F (-10°C ~ 55°C) With 0.5m/s Airflow</td>
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<tr>
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<td>Back Light MTBF (Hours)</td>
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<tr>
<td>Life Time</td>
<td>—</td>
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**OMNI Series: Modular Display Solutions**

**Dimension**
Unit: mm

**Cutout Dimension:** 429 x 359mm

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- 1702031803
  Power Cord (European Type)
- 170203180E
  Power Cord (Japanese Type)
- AP-07978SLA1000
  LCD Monitor Stand 230mm, LA-100
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