



Factory Automation



Field Service



Facility Management



Military / Defense



Logistics



Harsh Environment



Heavy Machinery



Focus • Agility • Competitiveness

AAEON

RUGGED MOBILE SOLUTIONS

Your Smart Computing Partner

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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:

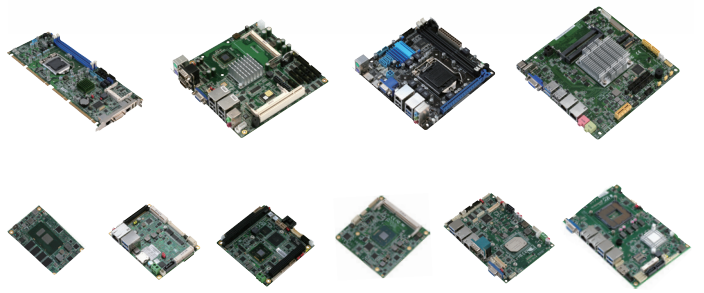
Turning cutting-edge concepts into reality



System Level Products

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.



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.

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

2019

- AAEON awarded the 26th Taiwan Symbol of Excellence Award
- AAEON went public on the Taiwan Stock Exchange
- AAEON awarded a 2017 COMPUTEX d&i Award
- AAEON awarded the 2017 Smart City Innovative Application Award

2017

- AAEON awarded the 23rd Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft Partner of Year 2015 Award
- AAEON awarded the Outstanding Business Achievement Award

2015

- AAEON awarded the Computex Taipei 2013 Best Choice of the Year Award
- AAEON awarded the 21st Taiwan Symbol of Excellence Award
- AAEON awarded the Microsoft Silver Partner Award

2013

- AAEON awarded the Taiwan Excellence Achievement Award
- 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)

2011

- AAEON awarded the Taiwan Superior Brand Award
- AAEON awarded the 17th Taiwan Symbol of Excellence Award
- AAEON awarded the 17th MOEA's Joint Award

2009

- 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 15th Taiwan Symbol of Excellence Award
- AAEON awarded the Computex Taipei Best Choice of the Year Award

2007

- 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

2005

- 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

2001

- AAEON was listed as an OTC (Over The Counter) stock company
- The AAEON Foundation was established to promote humanitarian work and technological education

1999

- AAEON-USA, the premier off-shore branch office was established in New Jersey

1997

2020

- AAEON awarded the 29th Taiwan Symbol of Excellence Award

2018

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

2016

- 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

2014

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

2012

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

2010

- AAEON awarded the 18th Taiwan Symbol of Excellence Award
- AAEON awarded the 2009 Growth in Intel® Atom™ Co-selling Award

2008

- AAEON awarded the Intel® Marketing Development Funds Award of Excellence
- AAEON awarded the 8th Industrial Sustainable Excellence Award
- AAEON awarded the 16th Taiwan Symbol of Excellence Award
- AAEON awarded the INFO TECH 100 TAIWAN Award

2006

- AAEON awarded the 14th Taiwan Symbol of Excellence Award

2004

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

2002

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

2000

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

1998

- AAEON established sales offices in Europe and China

1992

- AAEON established its first office in Taipei, Taiwan

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 9001: QMS Standards, 2015

ISO 13485: QMS Standards, 2016

ISO 14001: EMS Standards, 2015

3C: China Compulsory Certification

CE/FCC: All AAEON products undergo and meet CE and FCC test standards which prove their design quality and integrity



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.

Time Clock



Hospitality



Parking Management



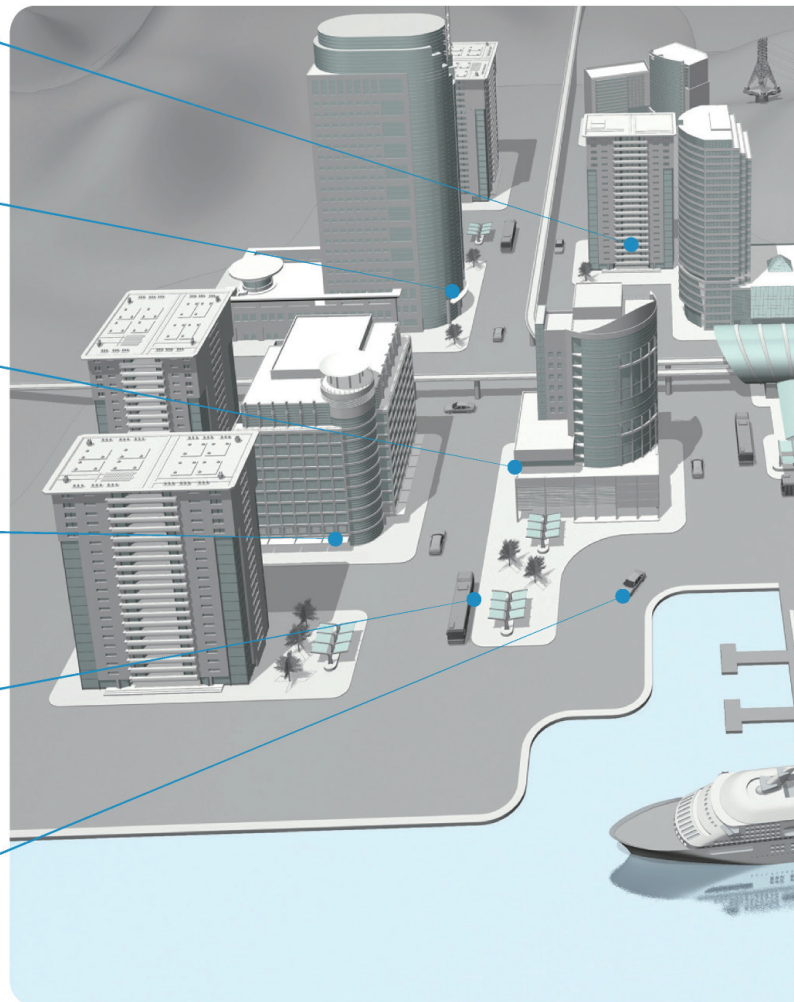
Access Control



e-Ticketing

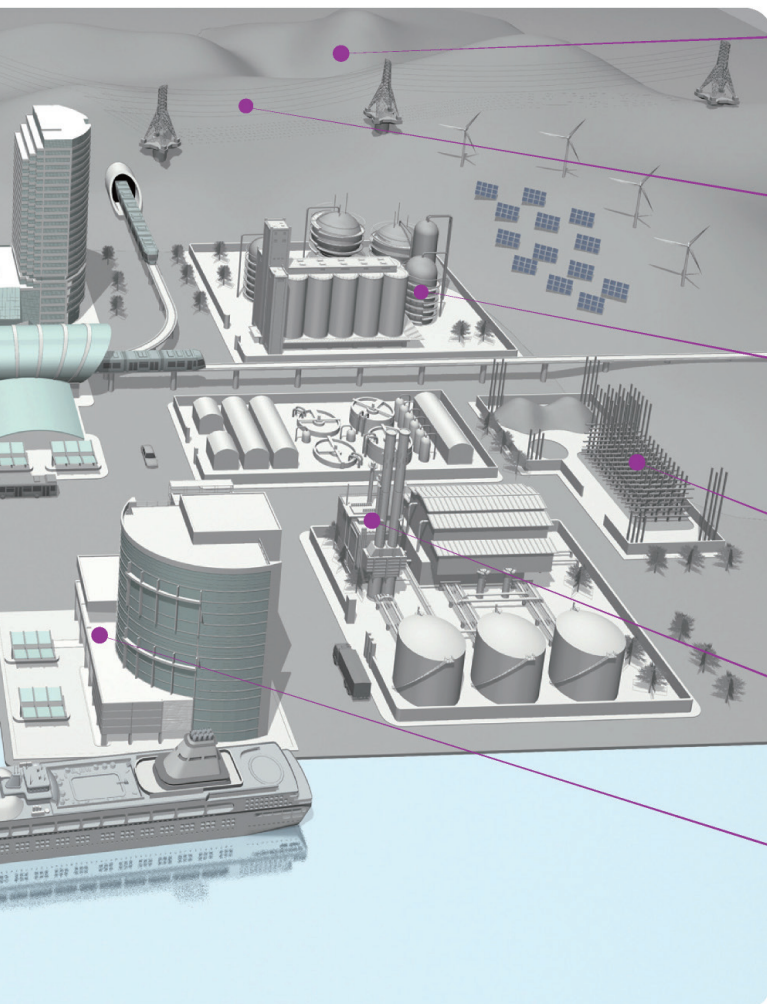


Fleet Management



Mobile Computing Solutions

00



Aerial Photography



Heavy Machinery



Factory Automation



Construction



Field Inspection



Logistic/Warehouse Management



00 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-710RK

Android-based 7" Rugged Tablet Computer

- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399 Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB
- 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)
- 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
- Android 8.1



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 4.2, 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



RTC-1010

10.1" Rugged Tablet Computer

- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1 GHz Dual Core Up to 2.4 GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default) up to 8GB (Optional)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, 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/ HF RFID Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or 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 / Android 9



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)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- WiFi 802.11b/g/n, Bluetooth 4.2, 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/ MSR Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or 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) 300-nit / 850-nit / 1000-nit TFT LCD (Optional)
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9GHz
- One DDR3L SODIMM Socket, Up to 8GB, DDR4 SODIMM Socket (Optional)
- One M.2 Slot for SSD, 64GB (Default), Up to 1TB (Optional)
- WiFi 802.11b/g/n, Bluetooth 4.1, 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 1, USB 3.2 Gen 1 (Type C) x 1 (Optional), USB 2.0 x 2
- 2D Barcode Scanner/ HF RFID 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, F1, F2, F3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT (Windows® 7 for Skylake, Optional)

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

**RBC-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-1200SPC01-000**

- 2-in-1 Protective Case for RTC-1200

**RBC-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.

Customized Services

- Longevity Support
- ODM Services
- Small Minimum Order Quantity

Fully-Rugged Design



Water Resistant

- IEC 60529
- IPx5 standard



Drop Test

- MIL-STD-810G Method 516.6 Procedure IV



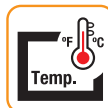
Dust Proof

- IEC 60529
- IP6x standard



Vibration Test

- MIL-STD-810G 514.6 Procedure I Cat. 24, Fig. 514.6E-1 & 514.6E-2
- ASTM 4169-99 Truck Assurance Level II, Schedule E



Temperature Test

- MIL-STD-810G Method 501.5 Procedure I & II, Method 502.5 Procedure I & II, Method 503.5 Procedure I, Method 507.5 Procedure II

Outdoor Application



Sunlight Readable LCD

- Readable under sunlight
- Higher brightness solution
- AOT optical bonding



Ambient Light Sensor

- Power savings in dark environments
- Detects light and brightness



AOT™ (Advanced Optibond Technology)

- The best reflection reduction among any commercially available technology
- Reinforces the LCD display, making it much more rugged



Long Battery Life

- Hot-swappable batteries design

Built-in Versatile Sensors



GPS

- Stand-alone GPS Navigation module



G Sensor

- Gravity sensor



E-Compass

- Electronic compass



Gyro Sensor

- Electronic gyroscopes

Wireless Communication



4G

- LTE



Bluetooth®

- 2.1/3.0/4.1/4.2/5.0



WiFi

- a/b/g/n/ac



NFC

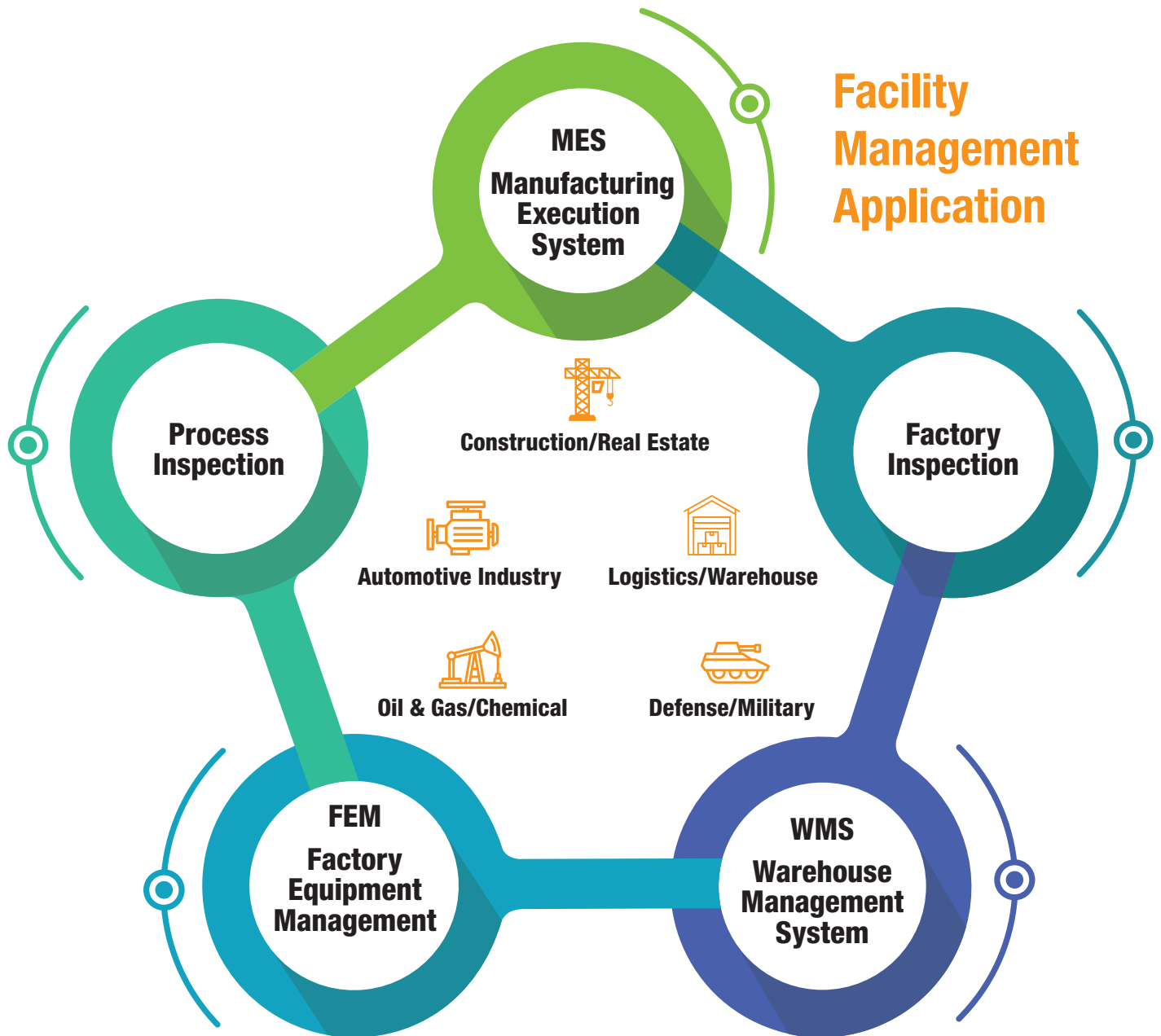
- 13.56MHz Near Field Communication



RFID

- 13.56MHz Radio Frequency Identification

Facility Management Application



Introduction

Facility Management is a market segment which crosses multiple vertical markets, and is rapidly growing and ripe for independent developers and systems integrators to capitalize on. Already, the segment has grown to over \$1 trillion USD a year, with analysts predicting growth to \$1.75 or even over \$2 trillion in 2026. AAEON Rugged Tablets are the perfect platform solution to take advantage of this growth and opportunity.

Facility Management crosses over between sectors including manufacturing, warehouse management, field inspection, education, communication and IoT, construction and more. AAEON's rugged tablets help power a range of applications including site inspection, personnel clock-in, checkpoints, and surveying; reducing paperwork, backend costs, and complexity to help these industries run smoother, more efficiently and achieve environmentally friendly goals.

Rugged Tablet Features and Benefits in Facility Management



Features

- IP65, drop/shock-proof (MIL-STD-810G)
- High Brightness Screens
- Barcode, NFC, Camera
- Wi-Fi, LTE Wireless Communication
- Hot Swappable Battery with Long Battery Life (8+ hours)



Benefits

- Easy to clean, rain and dust proof, built for outdoor use
- Rugged construction to withstand careless users
- Designed for long working hours



Software Customization

- Pre-install or remove APK/ Utilities
- Pre-configure Hot-Keys
- U-Boot, Secure Boot, Lock Device, and more



Software Benefits

- Intranet ready
- Easy to use
- Greater security

AAEON rugged tablets offer a range of features including IP65 and MIL-STD-810G compliant construction, perfect to keep out rain, dust and survive the occasional drop from careless users. The screens are easy to clean with sunlight readable capabilities, and AAEON rugged tablets can be used in a wide range of environments both indoors and out. Long battery life and hot-swappable batteries mean AAEON rugged tablets can keep working all day without needing to stop and find an outlet.

AAEON rugged tablets offer a range of accessories and options, from straps and harnesses for more ergonomic use to touchscreens that can be operated with gloves in low temperature situations. AAEON also offers customization services, whether it's adding on 4G/LTE modules or customizing software with pre-loaded customer APKs and utilities or removing unwanted system bundled APKs and utilities. AAEON also offers industry leading service and support to ensure your rugged tablet system provides you with long lasting reliable service.



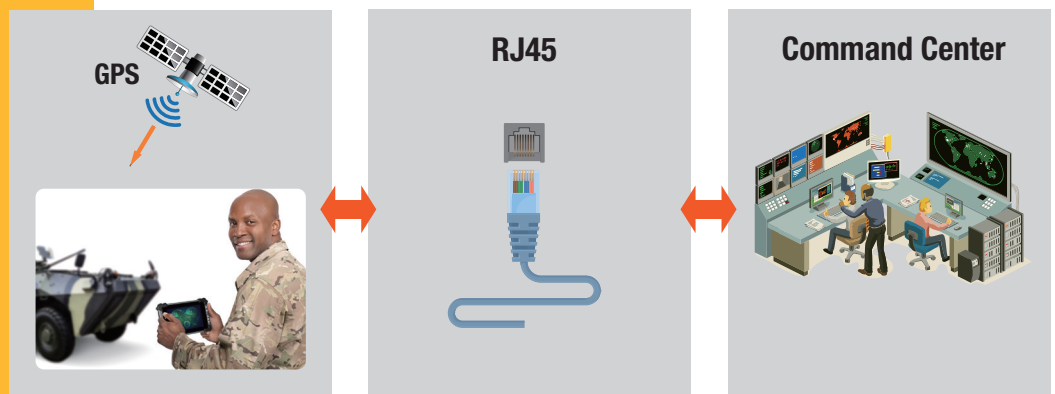
Requirements

- 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.





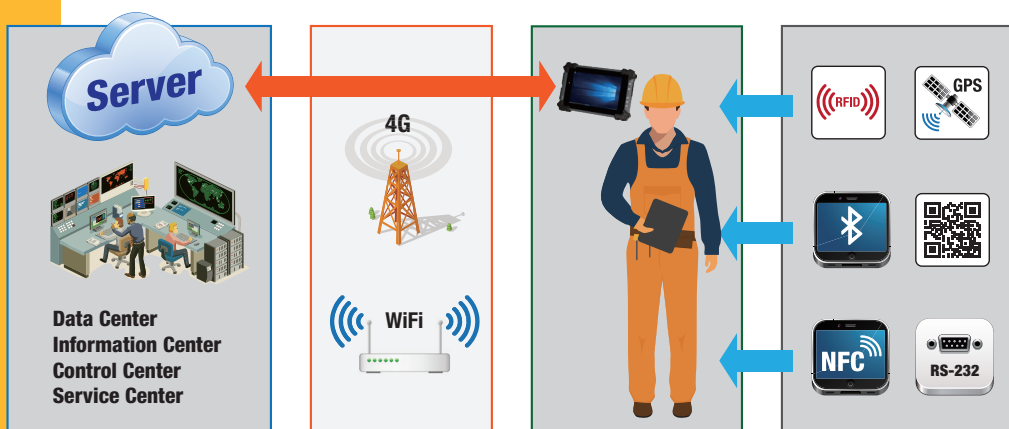
Requirements

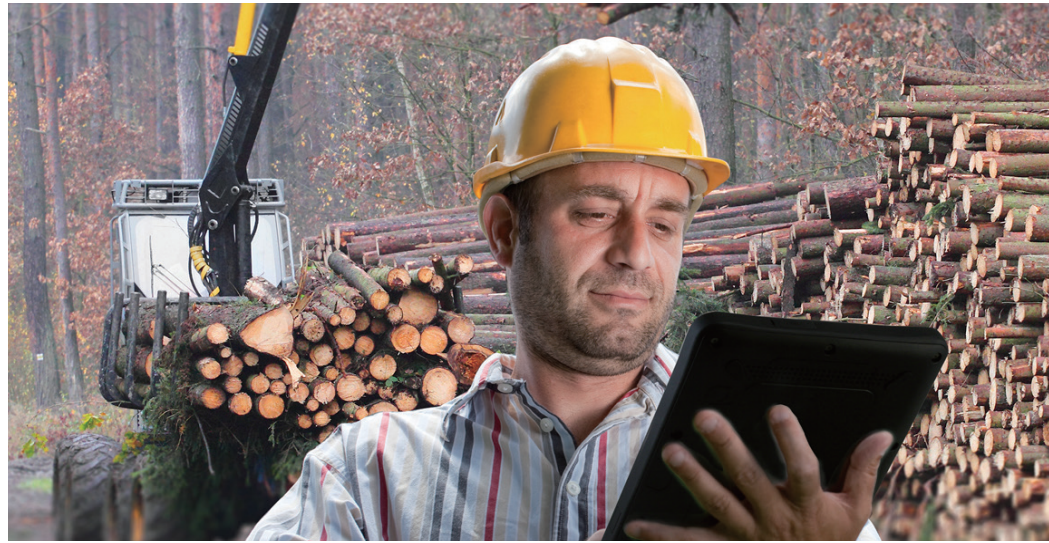
- Sunlight readable screens
- Vibration & water resistant
- Wireless communication
- Long battery life

Field Service

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.





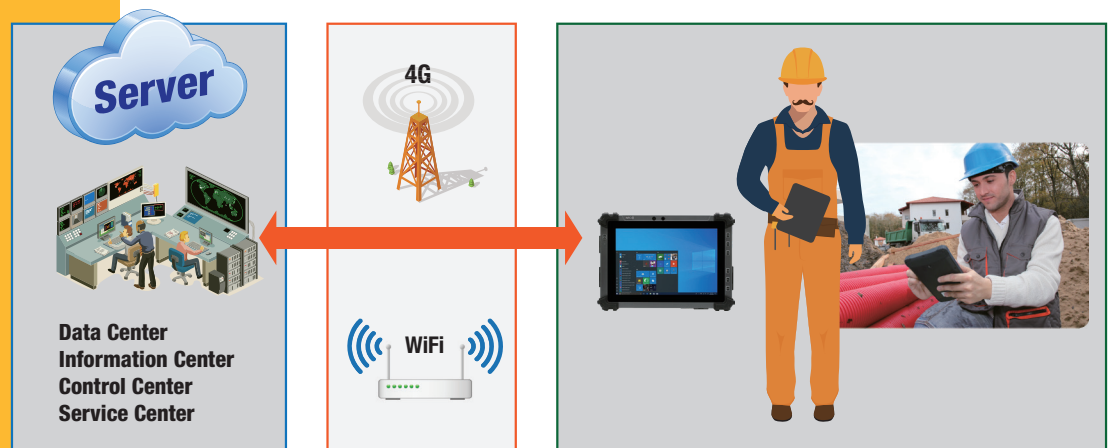
Requirements

- 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.





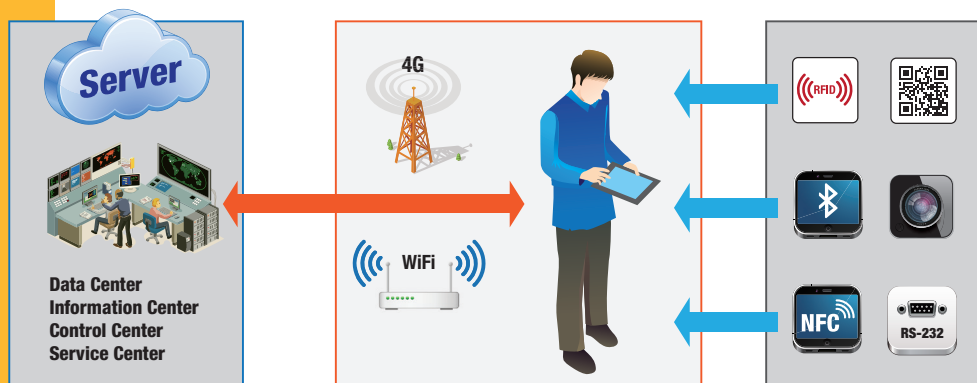
Requirements

- 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.

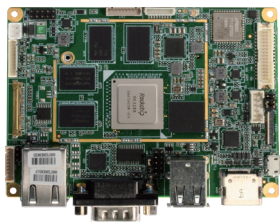




Introduction

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.

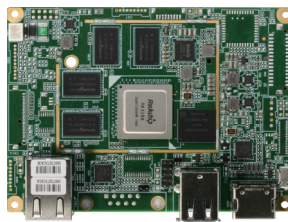
Featured Products



RICO-3288

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

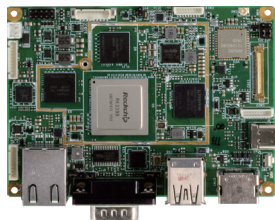
- Rockchip RK3288
- Onboard DDR3L 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4), eDP, LVDS, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2, Pin Header x 1
- RS-232/422/485 x 1, RS-232 x 1
- 8-bit 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

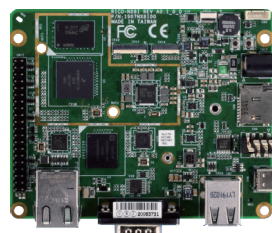
- Rockchip RK3288
- Onboard DDR3L 2GB
- Onboard eMMC 16GB
- HDMI (1.4): Up to 4K x 2K @ 60Hz
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- 8-bit GPIO
- +12V DC Input
- OS Support: Android 9.0 / Debian
- Small Board Size: 100mm x 72mm (PICO-ITX)



RICO-3399

Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor

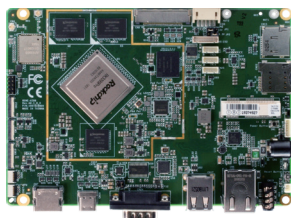
- Rockchip RK3399
- Onboard LPDDR3 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP
- WiFi 802.11 a/b/g/n/ac, BT V4.2, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, Type A x 1
- USB 2.0: Type A x 1, Pin Header x 1
- RS-232/422/485 x 1, RS-232 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)



RICO-MX8M

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

- NXP i.MX 8M Mini
- Onboard LPDDR4 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- MIPI, HDMI (Optional)
- WiFi & BT via M.2 WiFi/BT Module (Optional)
- GbE: RJ45 x 1
- USB 2.0: Type C OTG x 1, Type A x 2
- RS-232/422/485 x 1, RS-232 x 1, Debug Port x 1
- 28 GPIOs in 40-pin Raspberry Pi Connector
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Yocto
- Small Board Size: 100mm x 82mm

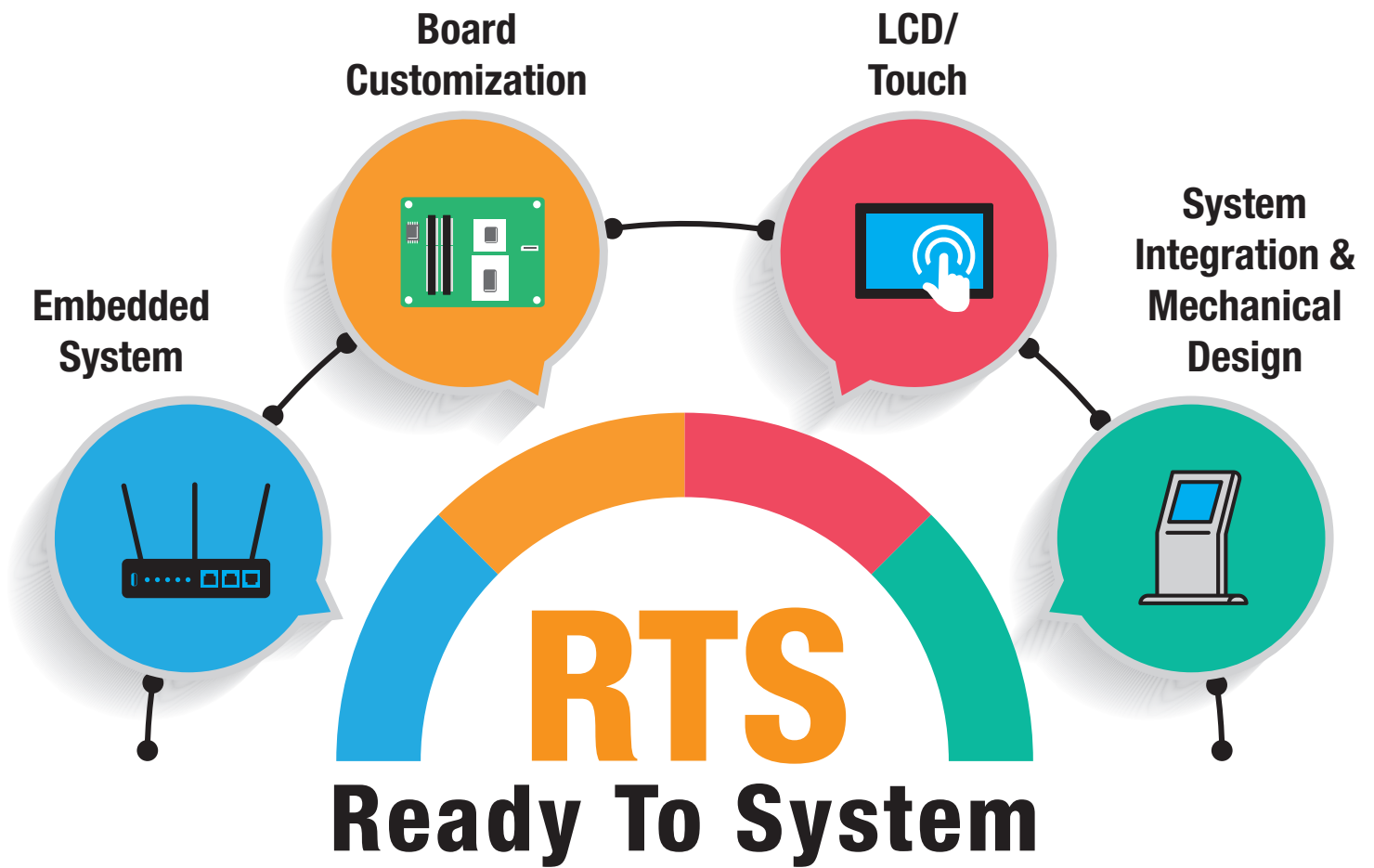


RENE-AI99

3.5" Board with Rockchip RK3399Pro for AI

- Rockchip RK3399Pro
- NPU: Up to 3.0TOPS
- Onboard LPDDR4 2GB (Optional)/4GB for CPU
- Onboard LPDDR3 1GB for NPU
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V5.0, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, USB 2.0: Type A x 2, Wafer 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: Debian
- Board Size: 146mm x 101mm (3.5")

AAEON RICO-3288/RICO-3399 RISC Ready to System (RTS) Solutions



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.



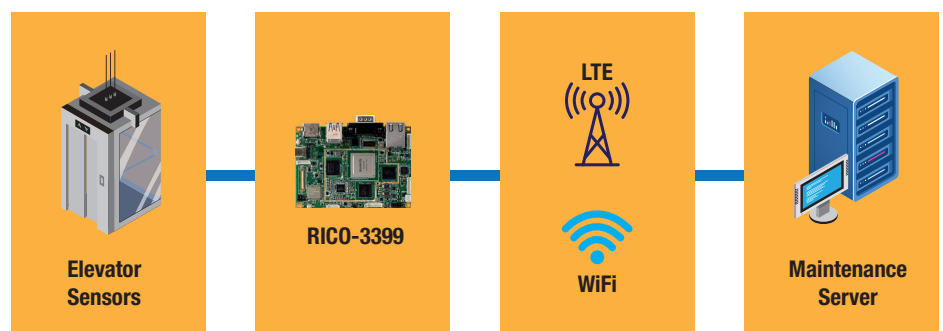
Requirements

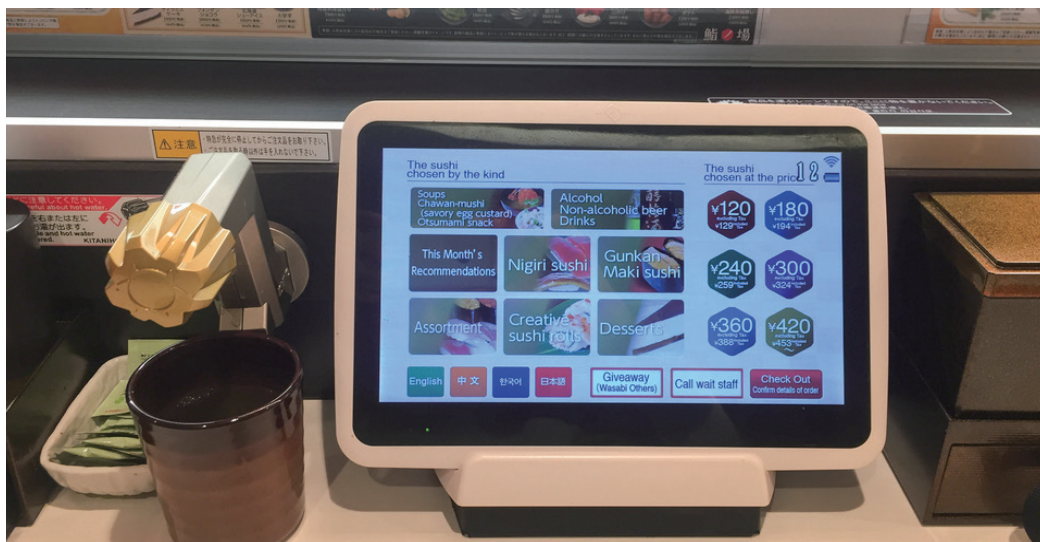
- Low Power
- Energy Efficient
- Reliable Operation
- Wide-Temperature
- Custom Android Image

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.





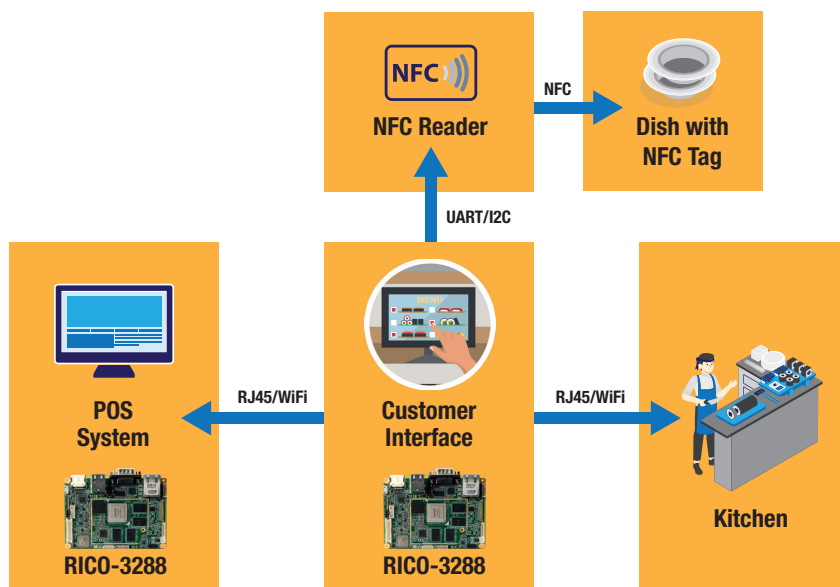
Requirements

- 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.





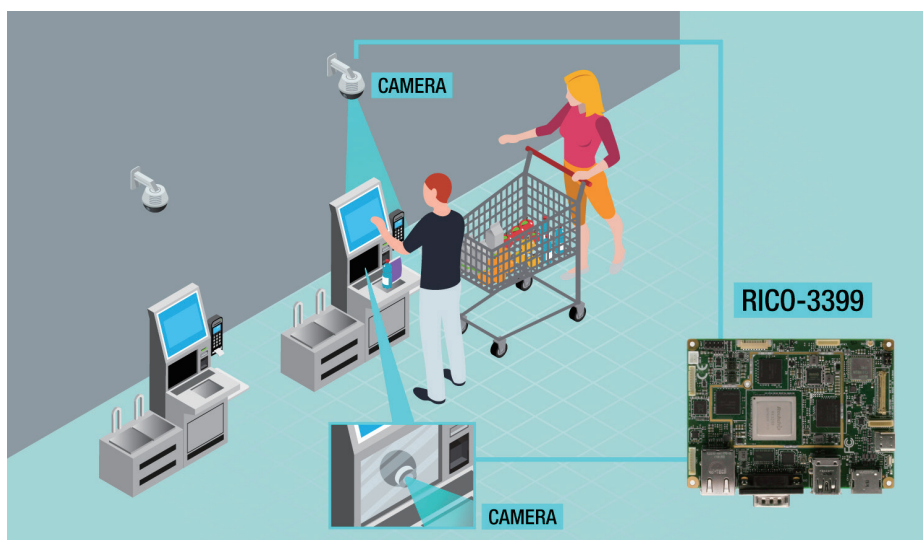
Requirements

- AI Edge Capable
- Reliable Operation
- Low Maintenance
- Wi-Fi Support
- Custom Android Image

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.

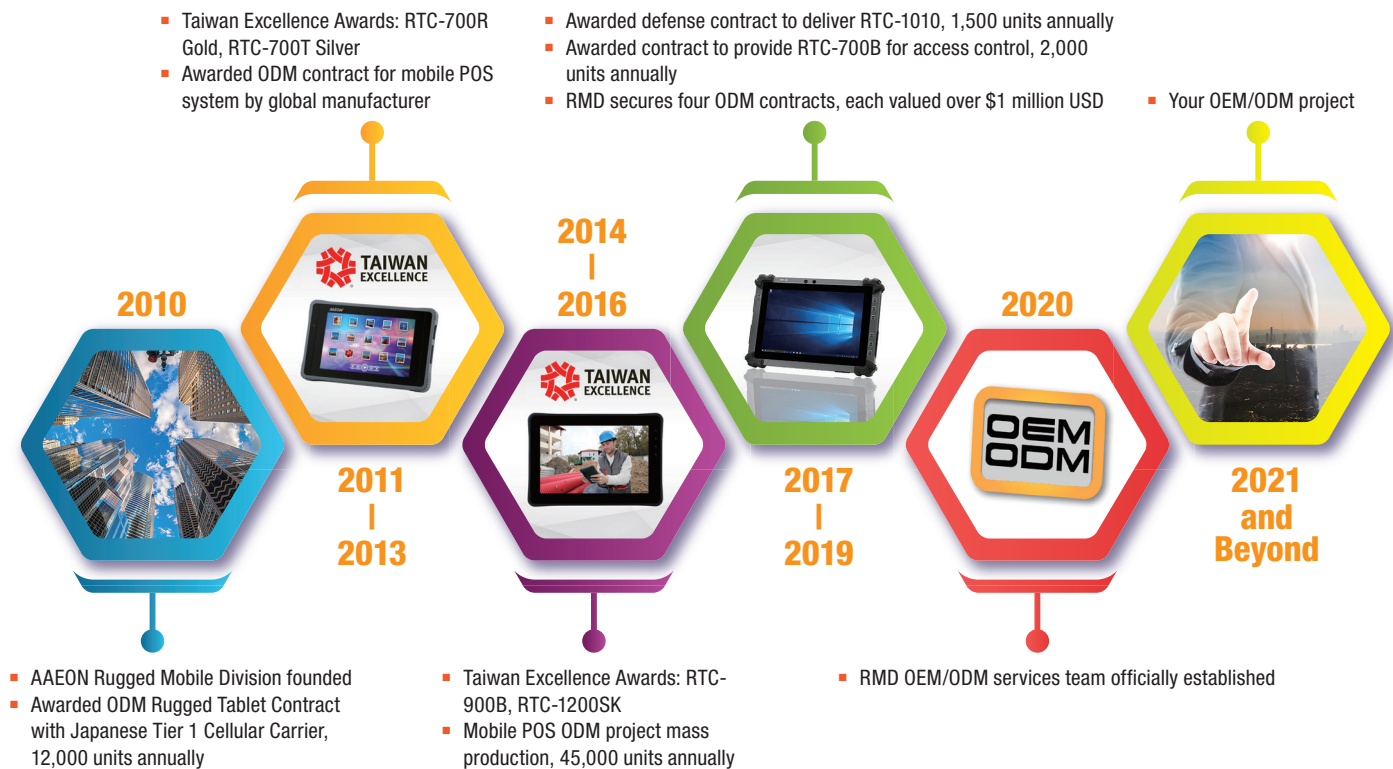


AAEON Rugged Mobile and RISC OEM/ODM Services

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



Core Competencies



Embedded Firmware Service

- Power Sequence, Sensors Access



Limitless Mobility

- RFID, 5G, WI-FI 6, Bluetooth, GPS



Smart Battery Management

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



High Brightness LCD

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

AAEON Rugged Mobile and RISC OEM/ODM Services

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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.

Rugged Tablet Computers

01



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



Specifications

System Architecture	
Processor	Rockchip RK3399 Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
Operating System	Android 8.1
Memory	Onboard LPDDR4 2GB (Default) / 4GB
Storage	eMMC 16GB (Default) / 32GB
Display	7" WXGA (1280x800) 700-nit / 300-nit TFT LCD
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, UART 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 v4.2 (EDR + BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna
WWAN(optional)	LTE via M.2 slot (Optional)
Camera	8MP front camera, 8MP rear camera with flash
Sensor	G-sensor, Gyroscope, 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)
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

Features

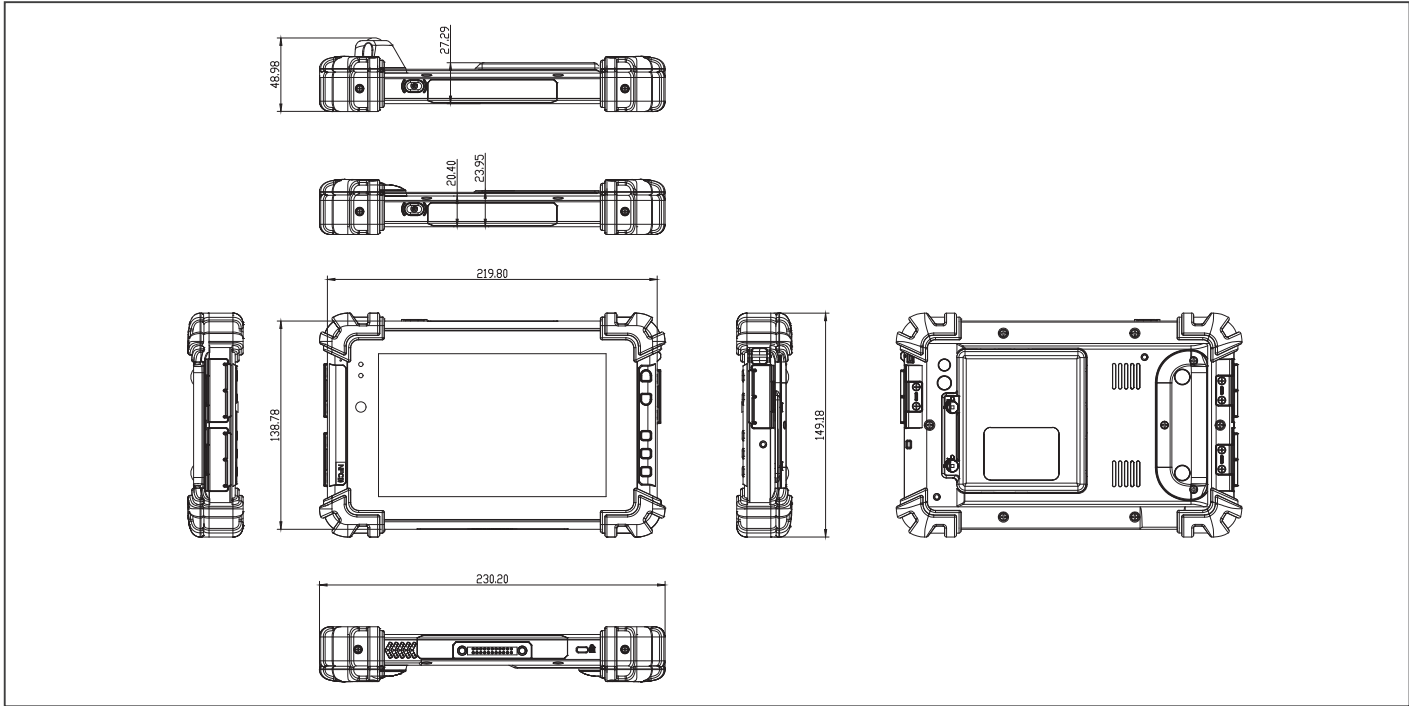
- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399 Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 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)
- 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
- Android 8.1



Physical Key	F1(Audio on/off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
Mechanical	
Color	Dark Grey
Dimension (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9mm)
Gross Weight	1.52 lb (0.69 Kg) based on configurations
Environmental	
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F) for high-brightness version
Storage Temperature	-55°C ~ 70°C (-67°F ~ 158°F)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G
Drop	MIL-STD-810G Method 516.6 Procedure IV Height of Drop: 122cm (48 inch; 4ft)
Shock	MIL-STD-810G
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368-1, 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	7.4V, 4420mAh, 32.7W
Slave Battery	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)
Display	
LCD	7" TFT-LCD Display
Resolution	1280 x 800
Maximum Color	16.7M
Dot Size	0.03925(H) X 0.11775(V) mm
Brightness	700 / 300 nits
Viewing Angle	Horizontal: 178°, Vertical: 178° (Typical)
Touch Screen	
Touch Type	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

- 1255X00008
Power Adapter
- RTC-710RK
*Power cord must be purchased separately.

Optional Accessories

- TBD

Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Bluetooth	4G Bands (MHz)	Navigation	Sensor	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	NFC (HF RFID)	2D Barcode Scanner	Com + Ethernet	Docking
TBD																			



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) 700-nit / 300-nit TFT LCD
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, UART 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 v4.2
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna
WWAN(optional)	LTE via M.2 slot (Optional)
Camera	2MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-Compass, Gyroscope, 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)
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

Features

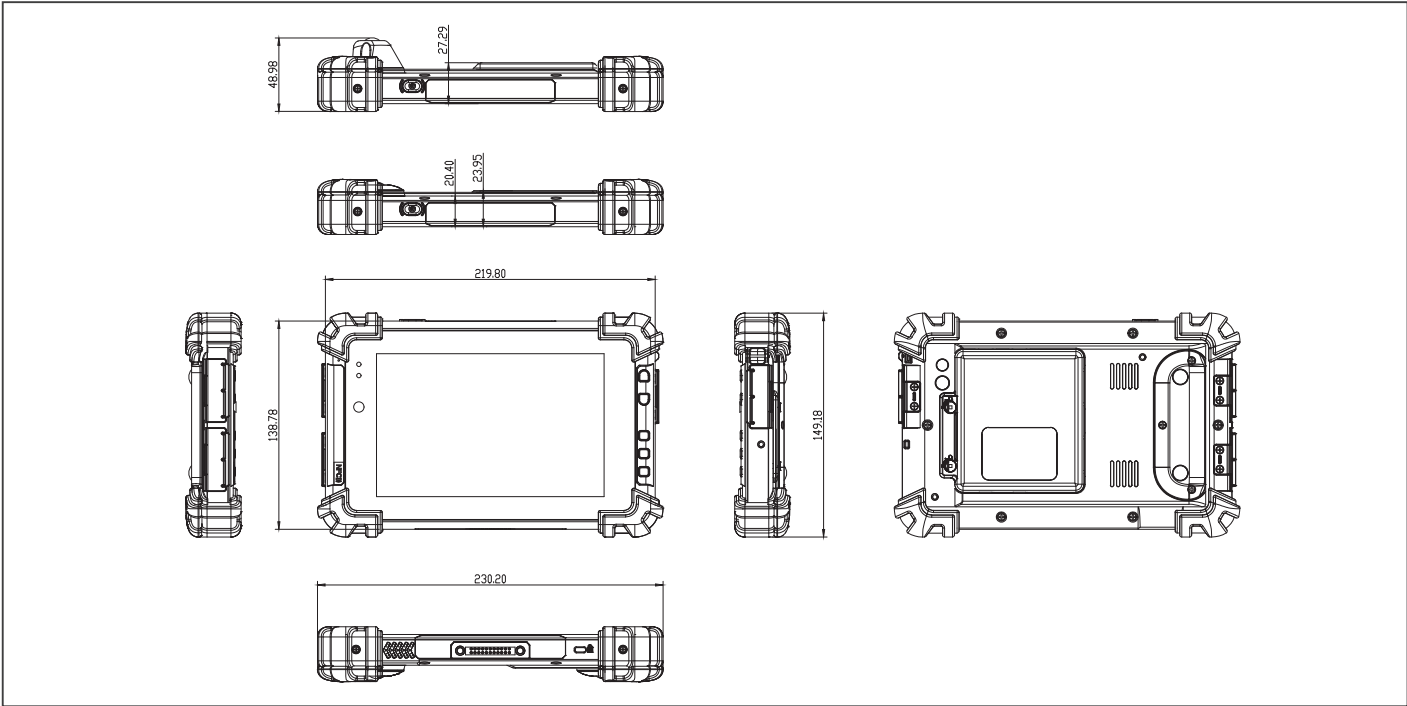
- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard LPDDR4 Memory, 4GB (Default) / 8GB
- eMMC 64GB (Default) / 128GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 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 22.6W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IOT



Physical Key	F1(Ctrl+Alt+Del as Soft Reboot), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
Mechanical	
Color	Dark Grey
Dimension (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9mm)
Gross Weight	1.54 lb (0.7 Kg) based on configurations
Environmental	
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F) for high-brightness version
Storage Temperature	-55°C ~ 70°C (-67°F ~ 158°F)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV - Height of Drop: 122cm (48 inch; 4ft) - Number of Drop: 26 times - Floor: Two inch plywood backed by concrete - For all surfaces, edges and corners
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368-1, 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 (TBC)
Master Battery	7.4V, 4420mAh, 32.7W
Slave Battery	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)
Display	
LCD	7" TFT-LCD Display
Resolution	1280 x 800
Maximum Color	16.7M
Dot Size	0.03925(H) X 0.11775(V) mm
Brightness	700 / 300 nits
Viewing Angle	Horizontal: 178°, Vertical: 178° (Typical)
Touch Screen	
Touch Type	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
Light Transmission	Min. 85%

Dimension

Unit: mm



Packing List

- 1255X00008
Power Adapter
- RTC-710AP
*Power cord must be purchased separately.

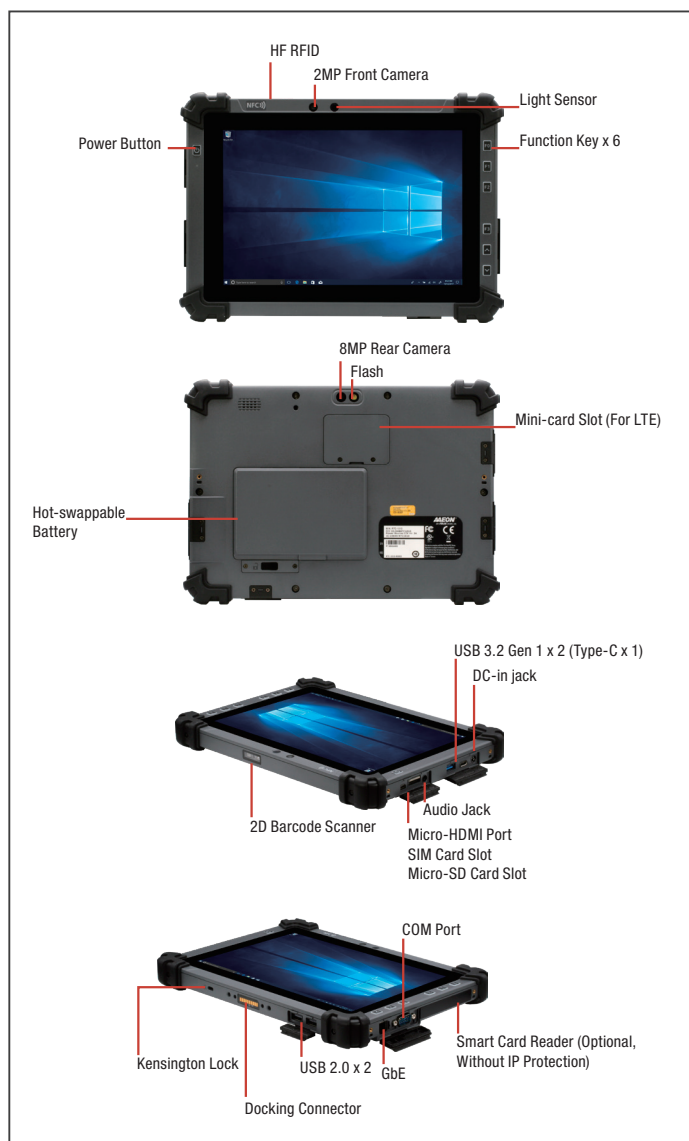
Optional Accessories

- TBD

* Small quantity MOQ may apply for optional/customized services.

Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Bluetooth	4G Bands (MHz)	Navigation	Sensor	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	NFC (HF RFID)	2D Barcode Scanner	Com + Ethernet	Docking
TBD																			



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 DDR3L 4GB (Default)
Storage	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)
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 Micro-SD card slot x 1 Audio jack x 1 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, Smart card reader x 1 (Optional, Without IP protection)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR+BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or 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 mini-card slot x 1, Mini-card slot x 1, 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

Features

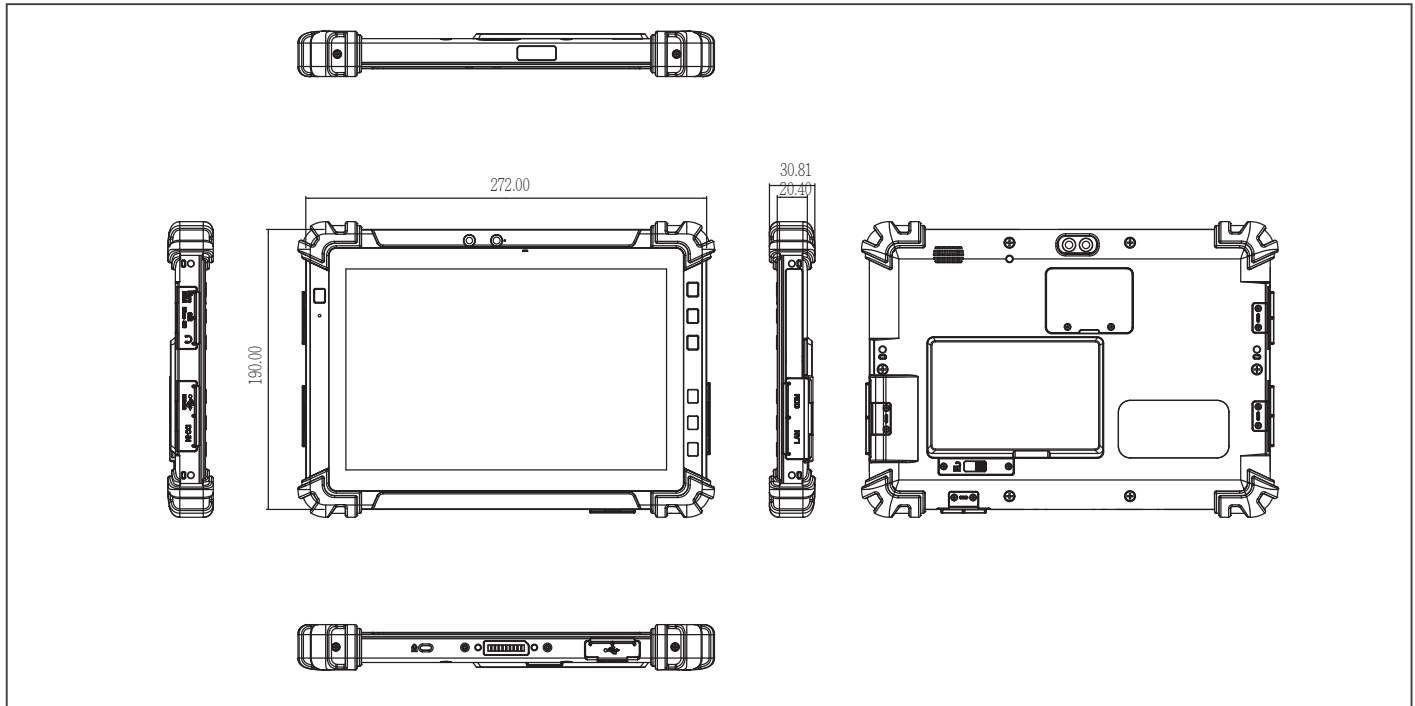
- 10.1" WXGA (1280 x 800) 800-nit / 300-nit TFT LCD
- Intel® Celeron™ N3350 1.1 GHz Dual Core Up to 2.4 GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 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/ HF RFID Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or 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



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
Mechanical	
Color	Black & Dark Gray
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm x 20.4 mm)
Gross Weight	2.2 lb (1.0 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55°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) ASTM 4169-99 Truck Assurance Level II, Schedule E (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
Shock	—
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/ 16:10 with LED backlight
Resolution	1280 x 800
Maximum Color	N/A
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nits (800 nits optional)
Viewing Angle	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 85%

Dimension

Unit: mm



Packing List

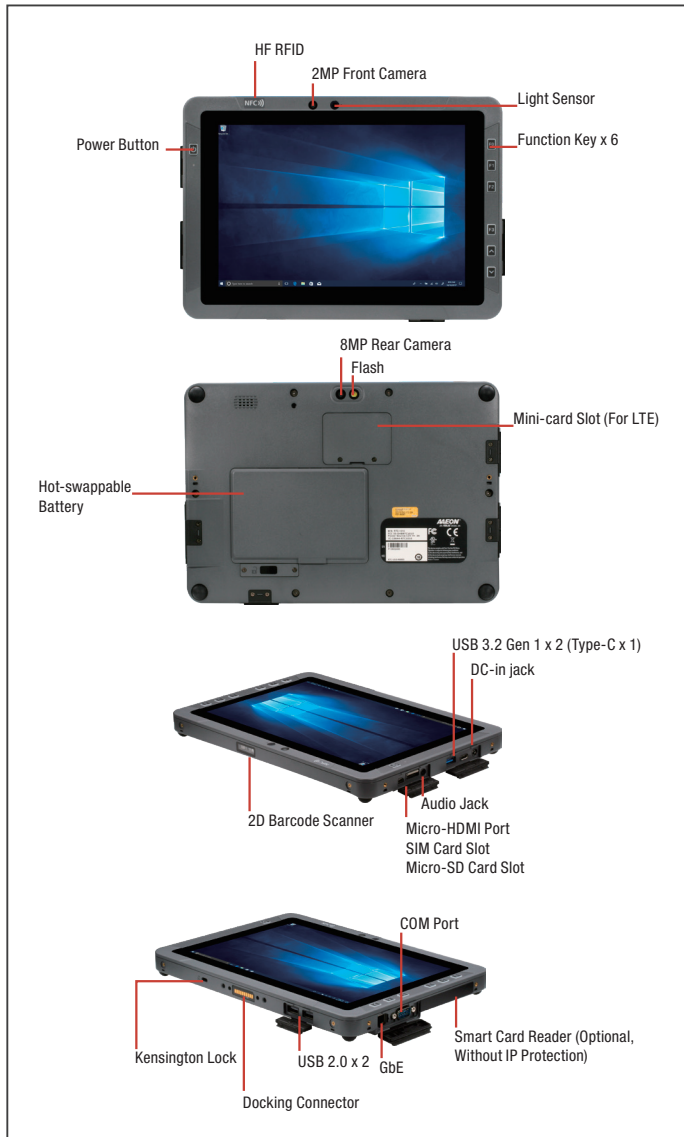
- 12V Power Adaptor
 - RTC-1010
- *Power cord must be purchased separately.

Optional Accessories

- RDS-411-000
Docking Station
- 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
- 1255900363
DC-To-DC Power Adaptor, Flying Wires
- 1255900364
DC-To-DC Power Adaptor, Cigarette Plug

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/ Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	HF RFID	Battery	Power
RTC-1010-R0004	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 2MP	—	—	32.7W	DC12V
RTC-1010-R0005	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	—	—	32.7W + 11.3W	DC12V
RTC-1010-R0001	N3350	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-R0003	N4200	Windows® 10 IoT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-RH0005	N3350	Windows® 10 IoT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	—	—	32.7W + 11.3W	DC12V
RTC-1010-RH0003	N4200	Windows® 10 IoT	10.1" 800 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / Galileo / GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V



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 DDR3L 4GB (Default)
Storage	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)
Display	10.1" WXGA (1280x800) 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 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 v4.2 (EDR + BLE)
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or 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 mini-card slot x 1, Mini-card slot x 1, Docking connector: USB 2.0 x 1
Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB (Optional)

Features

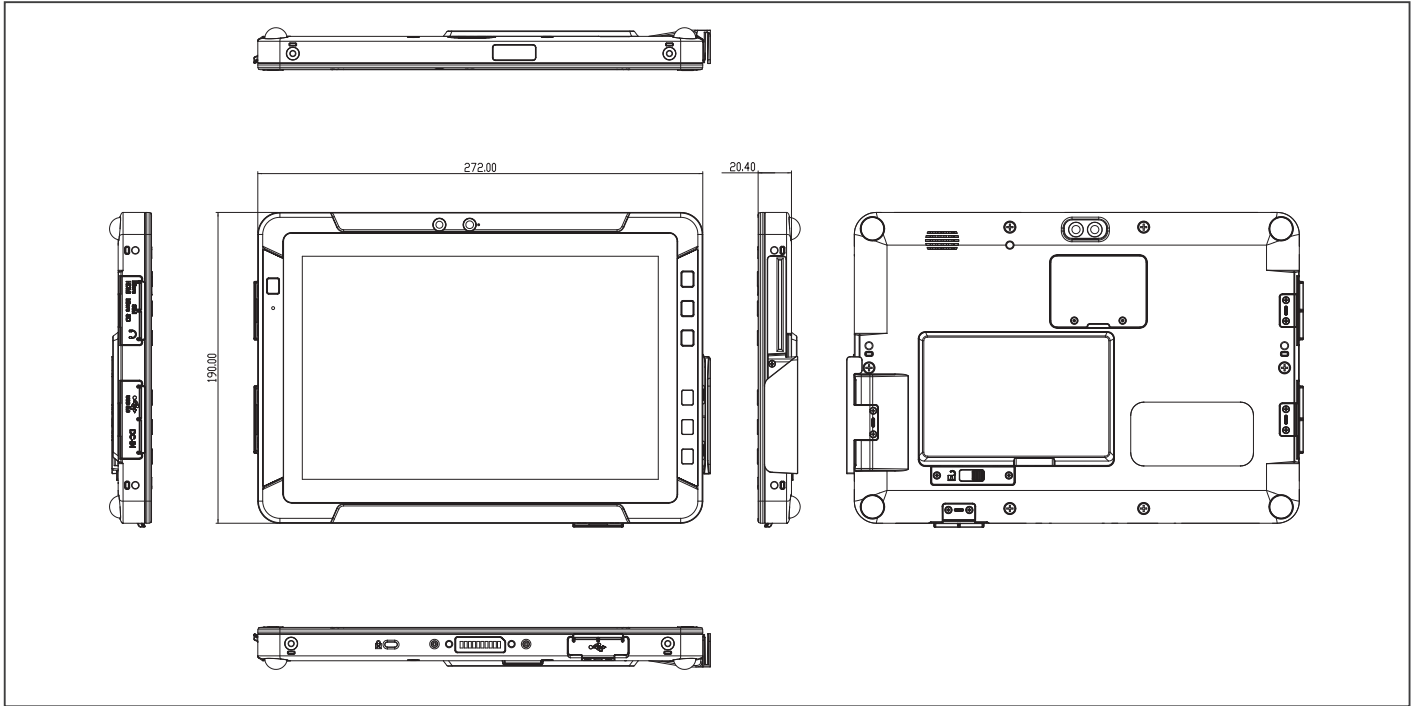
- 10.1" WXGA (1280 x 800) 300-nit TFT LCD (Default)
- Intel® Celeron™ N3350 1.1GHz Dual Core Up to 2.4GHz (N4200 Optional)
- Onboard DDR3L Memory, 4GB (Default)
- eMMC 64GB (mSATA III Up to 512GB Optional)
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 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/ MSR Reader (Optional)
- Up to 3 GNSS, GPS+Galileo(Default), GLONASS or 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



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
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
Mechanical	
Color	Black & Dark Gray
Dimension (W x H x D)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm 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	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP54
Vibration	—
Drop	Drop height: 76 cm Condition: Based on 2" plywood over concrete
Shock	—
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/ 16:10 with LED backlight
Resolution	1280 x 800
Maximum Color	N/A
Dot Size	0.1692 (H) x 0.1692 (V) mm
Brightness	300 nit (800 nits optional)
Viewing Angle	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 85%

Dimension

Unit: mm



Packing List

- 12V Power Adaptor
- RTC-1010M

*Power cord must be purchased separately.

Optional Accessories

- **RDS-411-000**
Docking Station
- **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

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	2D Barcode Scanner	SCR	HF RFID	MSR	Battery	Power
RTC-1010-M0002	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	N/A	—	Front: 2MP	—	—	—	—	32.7W	DC12V
RTC-1010-M0001	N3350	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 USB 3.2 Gen 1 x 2 (USB Type-C x 1), USB 2.0 x 2 DC-in jack x 1	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/ Galileo/ GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	Yes	Yes	Yes	32.7W + 11.3W	DC12V
RTC-1010-M0003	N4200	Windows 10 IOT	10.1" 300 nits	PCT 10 points	DDR3L 4GB	eMMC 64GB	Micro-HDMI port x 1 SIM card slot x 1 Micro-SD card slot x 1 Audio jack x 1 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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/ Galileo/ GLONASS	—	Front: 2MP Rear: 8MP w/ Flash	Yes	—	Yes	—	32.7W + 11.3W	DC12V

10.1" Rugged Tablet Features Intel Tiger Lake UP3 Processor with Windows® 10



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, up to 16GB
Storage	M.2 SSD, 64GB (Default)
Display	10.1" WUXGA (1920x1200) 450-nit / 850-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, 10/100/1000 Base-T RJ45 x 1
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	5MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	M.2 slot x 2 (One for SSD, One for WiFi module), Mini-card slot x 1 (For LTE module), Docking 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

Features

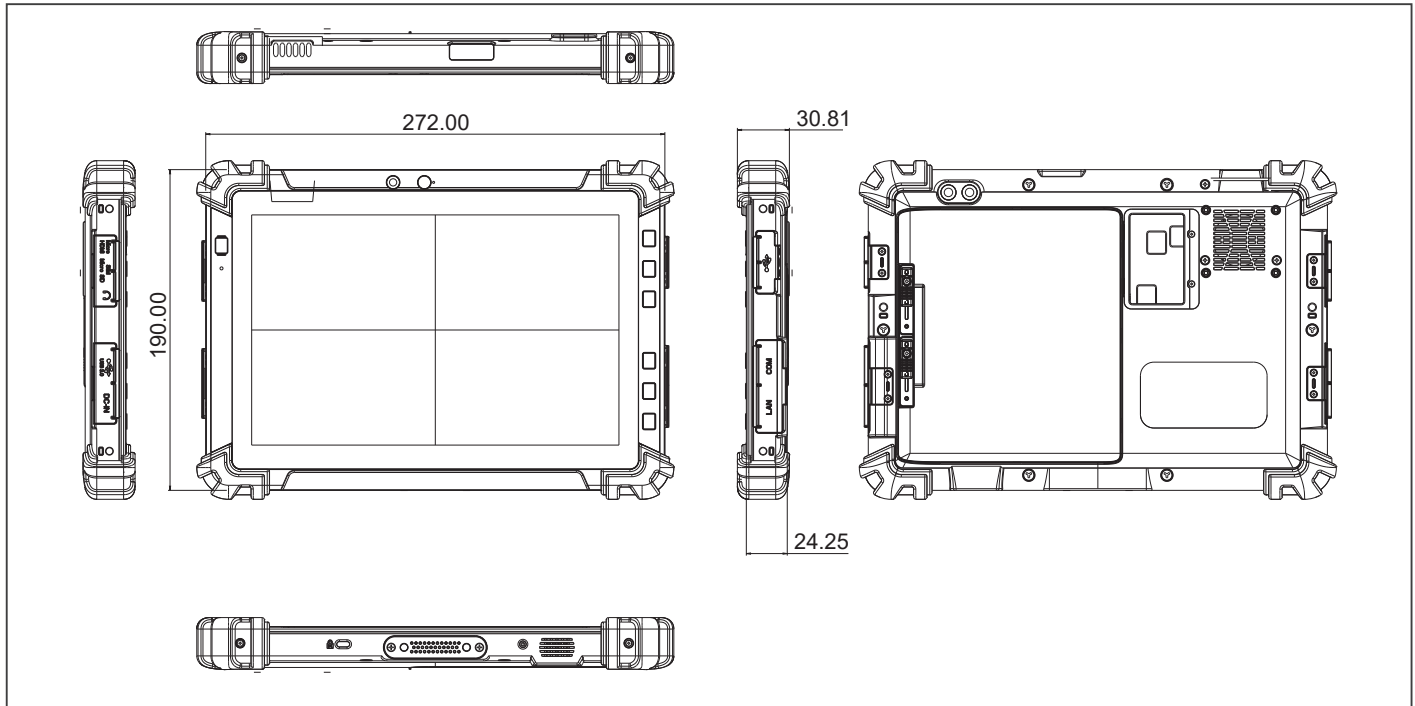
- 10.1" WUXGA (1920 x 1200) 450-nit / 850-nit TFT LCD
- Intel® Core™ i Tiger Lake UP3 Processor
- Onboard LPDDR4X, Up to 16GB
- M.2 SSD, 64GB (Default)
- Projective Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 5MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 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)
- NFC (HF RFID) Reader (Optional)
- Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional)
- 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



Physical Key	F0: 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 Gray
Dimension (W x H x D)	10.71" x 7.48" x 0.94" (272.0 mm x 190.0 mm x 24.0 mm)
Gross Weight	3.3 lbs (1.5 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-67°F ~ 158°F (-55°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) ASTM 4169-99 Truck Assurance Level II, Schedule E (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
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368, 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 (Can be 10 hours when adopting 51.1W battery x 2)
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)
Slave Battery	14.4V, 2270mAh, 32.7W 14.8V, 3450mAh, 51.1W (Optional)
Display	
LCD	10.1" TFT-LCD/ 16:10 with LED backlight
Resolution	1920 x 1200
Maximum Color	16.7M
Dot Size	N/A
Brightness	450 nits (850 nits, Optional)
Viewing Angle	Horizontal: 160° (Typ.), Vertical: 160° (Typ.)
Touch Screen	
Touch Type	Projected capacitive multi-touch screen (PCT)
Light Transmission	Min 87%

Dimension

Unit: mm



Packing List

- 19V Power Adaptor
- RTC-1020

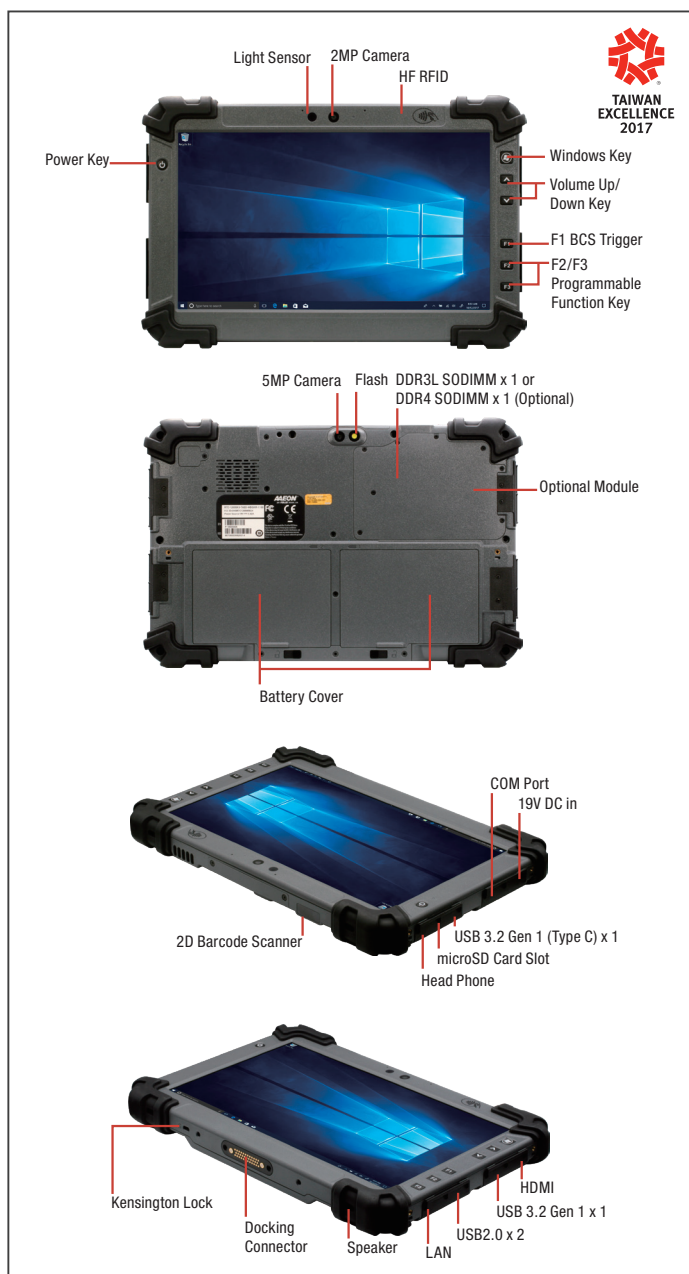
*Power cord must be purchased separately.

Optional Accessories

- TBD

Ordering Information

- TBD



Specifications

System Architecture	
Processor	Intel® Core™ i 7100U / 7300U Dual Core up to 3.9GHz Intel® Celeron® 3965U Dual Core 2.2GHz Processor
Operating System	Windows® 10 IoT Enterprise 64bit (Default) Windows® 7 for Skylake (Optional)
Memory	DDR3L SODIMM Socket x 1, up to 8GB, DDR4 SODIMM Socket (Optional)
Storage	M.2 (NGFF) SSD, 64GB (Default), up to 1TB (Optional)
Display	11.6" FHD (1920x1080) 300-nit / 850-nit / 1000-nit TFT-LCD With Projected Capacitive Multi-Touch Screen (Optional)
I/O Port	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 (Type A) x 1, USB 3.2 Gen 1 (Type C) x 1 (Optional), USB 2.0 (Type A) x 2, DC-in Jack x 1, RS-232/422/485 COM Port x 1, 10/100/1000 Base-T RJ45 x 1
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.1
Navigation	GPS, GLONASS
WWAN(optional)	LTE via mini-card slot (Optional)
Camera	2 MP front camera, 5 MP auto-focus rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor

Features

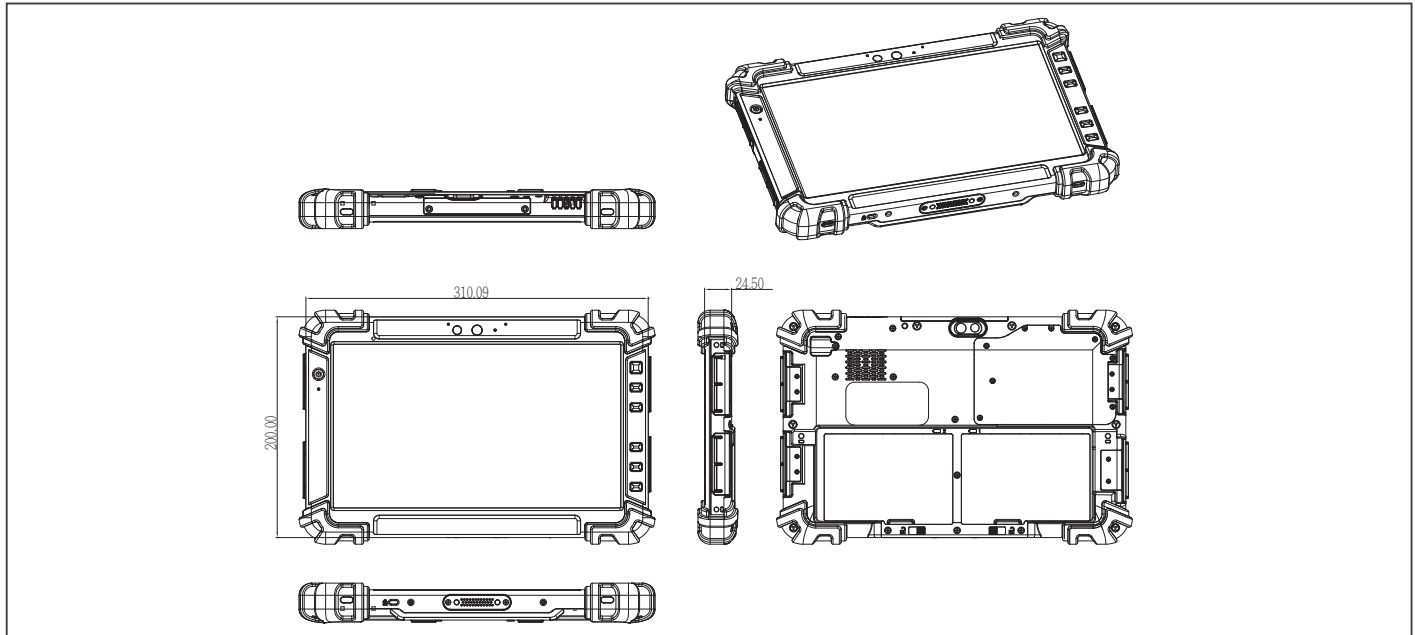
- 11.6" FHD (1920 x 1080) 300-nit / 850-nit / 1000-nit TFT LCD (Optional)
- Intel® Core™ i 7100U / 7300U / Celeron® 3965U Up to 3.9GHz
- One DDR3L SODIMM Socket, Up to 8GB, DDR4 SODIMM Socket (Optional)
- One M.2 Slot for SSD, 64GB (Default), Up to 1TB (Optional)
- WiFi 802.11b/g/n, Bluetooth 4.1, LTE (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 1, USB 3.2 Gen 1 (Type C) x 1 (Optional), USB 2.0 x 2
- 2D Barcode Scanner/ HF RFID 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, F1, F2, F3, With LED Illumination
- Docking Connector with GNSS / WWAN Antenna Pass-through Connector
- Windows® 10 IOT (Windows® 7 for Skylake, Optional)



Expansion Slot	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
Physical Key	F0 or Windows (Windows Start Key), F1(Ctrl+Alt+Del & Barcode Scanner Trigger), F2 (Touch Mode Switch), F3 (PrtSc/printscreens), Volume Up, Volume Down
Mechanical	
Color	Gray & Black
Dimension (W x H x D)	12.36" x 7.87" x 0.96" (310.4mm x 200mm x 24.5mm)
Gross Weight	3.3 lbs (1.5 kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	50°C; 5% ~ 90% R/H; 120 hours, non-condensing
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
Drop	MIL-STD-810G Method 516.6 Procedure IV - Height of Drop: 122cm (48 inch; 4ft), - Number of Drop: 26 times, - Floor: Two inch plywood backed by concrete, - For all surfaces, edges and corners
Shock	—
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL: UL60950-1, CE/LVD: EN60950-1, FCC, CE
Power Supply	
AC / DC Adapter	AC 100~240V, 50~60Hz ; DC 19V/3.42A (65W)
Battery Life	Dual Li-ion High Capacity Batteries, up to 10 Hours Battery Life
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Display	
LCD	11.6" TFT-LCD/ 16:9, with LED backlight
Resolution	1920 x 1080 pixel
Maximum Color	16.7M
Dot Size	0.117 x 0.117(H)
Brightness	300 nits / 850 nits / 1000 nits (Optional)
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	11.6" Projected Capacitive Multi-Touch Screen Gloves / Finger Switchable by F2
Light Transmission	Min 87% (ASTM D1003; Wavelength = 550 nm)

Dimension

Unit: mm



Ordering Information

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/ Blue-tooth	LTE Bands (MHz)	Navigation	Sensor	Camera	Battery	Power	Expansion I/O	Size & Weight	Operation Temp	Durable	HF RFID	2D Barcode Scanner	Docking
RTC-1200-R0001	Intel® Celeron® 3965U	11.6** 300 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		—	—	Yes
RTC-1200-RH0002	Intel® Core™ i3 7100U	11.6** 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V	HDMI port x 1, SIM card slot x 1, Micro-SD card slot x 1, Audio jack x 1, USB 3.2 Gen 1 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	310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)	Meet IEC 60529 IP-65 standard MIL Std 883C-2000, Procedure IV MIL Std 883C-2000, Procedure I 26 drops of 48" height to 2" plywood over concrete with bumpers & unit off 2 units to pass	Yes	—	Yes
RTC-1200-RH0003	Intel® Core™ i3 7100U	11.6** 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		Yes	Yes	Yes
RTC-1200-RH0004	Intel® Core™ i5 7300U	11.6** 1000 nits	Pcap 10-point	SODIMM DDR3L 4GB	M.2 SSD 64GB	Windows 10 IoT	802.11 b/g/n + BT4.1	—	GPS/ Glonass	G-sensor E-compass Gyro-sensor Light-sensor	Front: 2MP Rear: 5MP w/Flash	32.7W + 32.7W	DC19V		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		Yes	—	Yes

Packing List

- 125530065A Adapter

- RTC-1200

*Power cord must be purchased separately.

Optional Accessories

- RTC-1200HSP01-000 Rotating Hand-Strap
- RTC-1200BLT01-000 Shoulder Belt 2-point
- RTC-1200BLT02-000 Shoulder Belt 4-point
- RTC-1200SPC01-000 Swivel portfolio case
- RTC-1200-STSO2-000 Active Stylus
- RTC-1200BAT01-000 Batteries x 2/ Box
- RTC-1200BKT01-000 Mount Bracket (VESA/RAM)
- RBC-1200-000 Battery Charger
- RDS-241V-0000/0001 Vehicle Docking

* Small quantity MOQ may apply for optional/customized services.



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

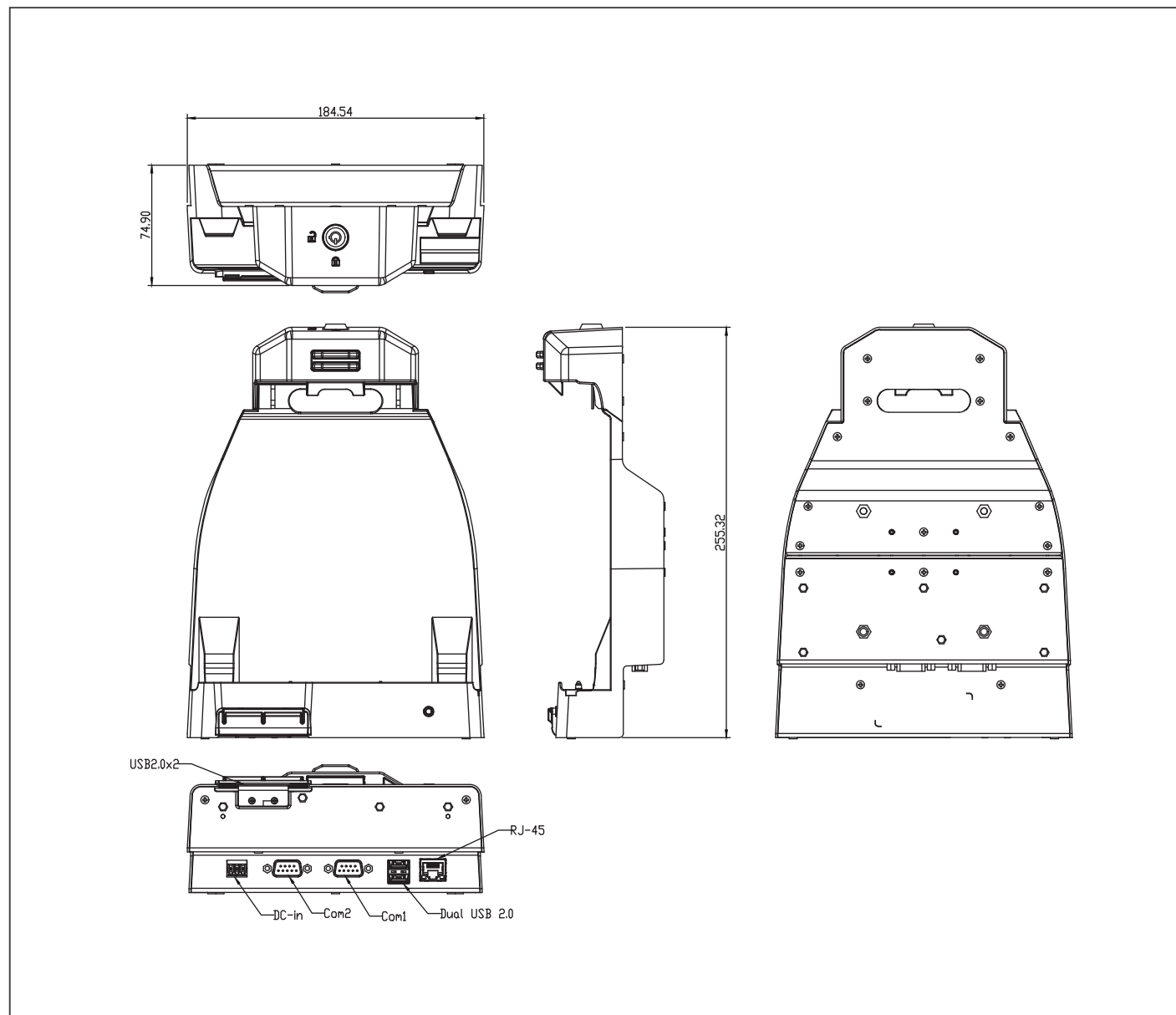


Specifications

System	
I/O	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
DC Input	Phoenix connector: DINKLE ECH381H-03P Wide Voltage Input: DC 9V to 36V Mating connector: DINKLE EC381V-03P
LED Indicator	Orange: DC in w/o Tablet Blue: DC in w/ Tablet
Others	Anti-theft lock with key & VESA mount
Mechanical	
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)
Environmental	
Operating Temperature	32°F ~ 122°F (0°C ~ 50°C)
Storage Temperature	14°F ~ 140°F (-10°C ~ 60°C)
ESD	Air charge: +/- 8KV Contact charge: +/- 4KV
EMC/ Safety	CE/FCC Class B/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	N/A

Dimension

Unit: mm



Ordering Infomation

- **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

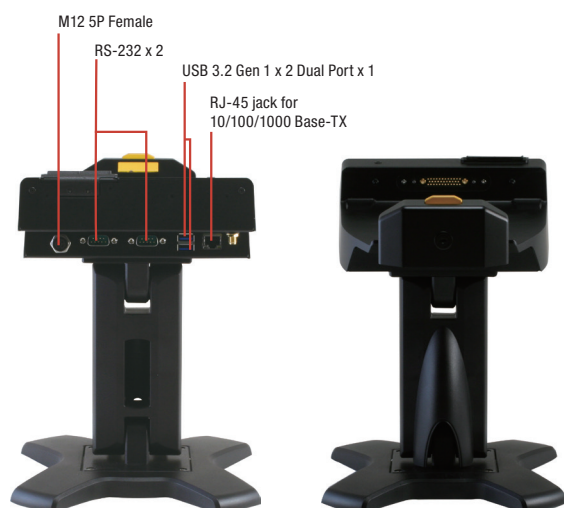
Packing List

- **12V / 40W AC Power Adapter**
- **RDS-411**

*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.



Features

- Apply on RTC-1200
- 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)

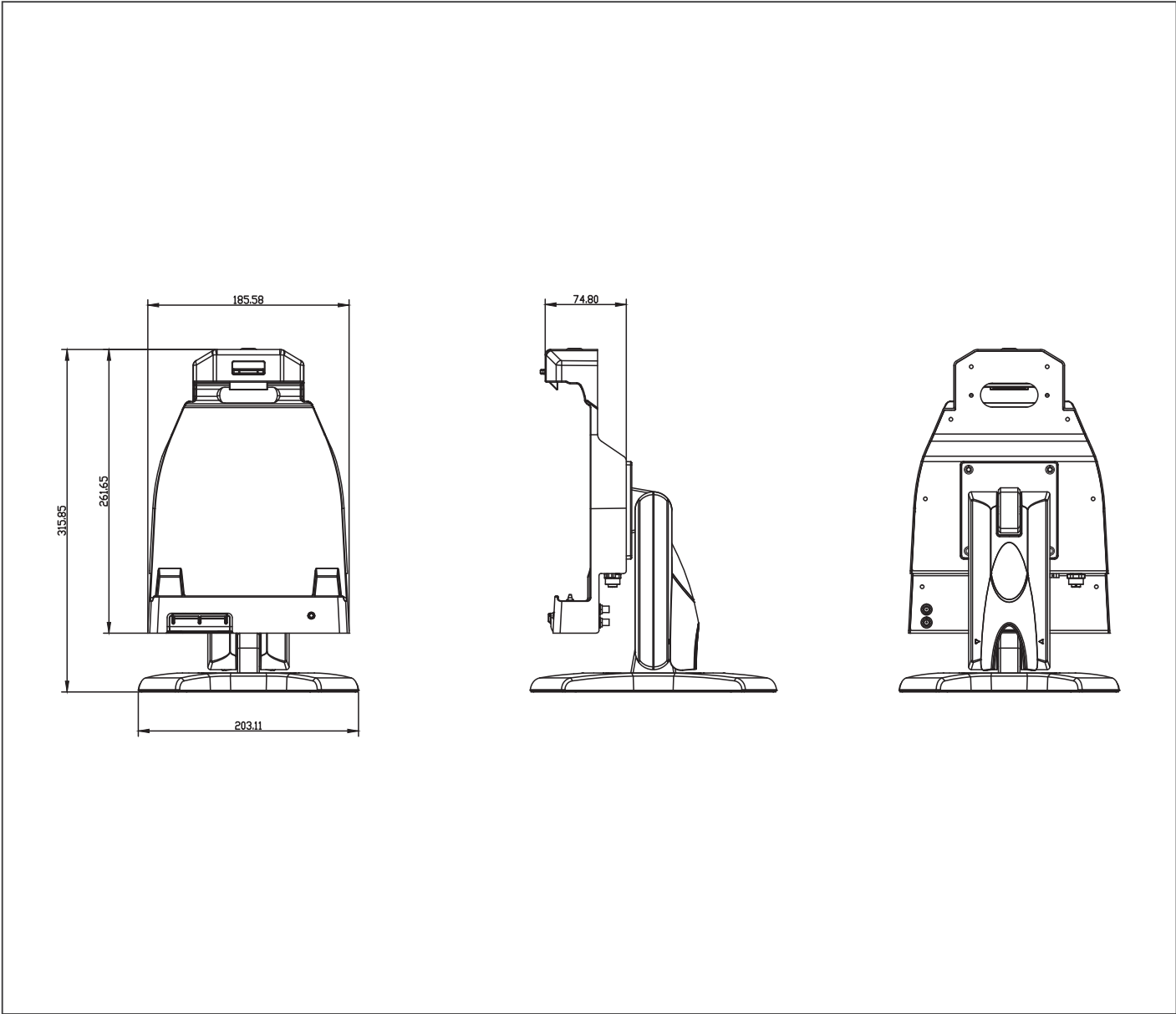


Specifications

System	
I/O	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, RJ-45 jack for 10/100/1000 Base-TX Ethernet x 1, RS-232 x 2, External antenna for GPS and WWAN x 2
DC Input	M12 5P Female (DC 9V to 36V)
LED Indicator	Orange:DC in w/o Tablet,Blue:DC in w/ Tablet
Mechanical	
Color	Black
Construction	PC
Dimensions (W x H x D)	10.28" x 6.50" x 2.96" (261 x 165 x 75mm)
Gross Weight	6.44 lb (2.92kg)
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)
ESD	Air +/- 8KV, Contact +/- 4KV
EMC/ Safety	CE/FCC Class B/UL
Power Supply	
AC/DC Adapter	Input: 100-240V,47-63Hz,90W Output: 19V/ 4.74A
DC/DC Adapter	Input: 11V-16V DC or 22V-32V DC Output: 19V DC/ 4.73A/ 90W

Dimension

Unit: mm



Ordering Infomation

Part Number	Applied Models	Stand	Expansion I/O
RDS-241V-0000	For RTC-1200 Series w/ Stand	Yes	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, LAN x 1, RS-232 x 2, GPS and WWAN x 2
RDS-241V-0001	For RTC-1200 Series w/o Stand	No	USB 2.0 x 2, USB 3.2 Gen 1 Dual Port x 1, LAN x 1, RS-232 x 2, GPS and WWAN x 2

Packing List

- RDS-241V
- *Power cord must be purchased separately.

Optional Accessories

- 1255300903
Power Adapter
- 1255900900
Flying Lead Adapter for Vehicle

RTC-1010-HS-000

Hand Strap for RTC-1010/ RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	232 x 92 x 30 mm

Ordering Information

- **RTC-1010-HS-000**
Hand Strap

RTC-1010-SB-000

Shoulder Belt for RTC-1010/ RTC-1010M



Specifications

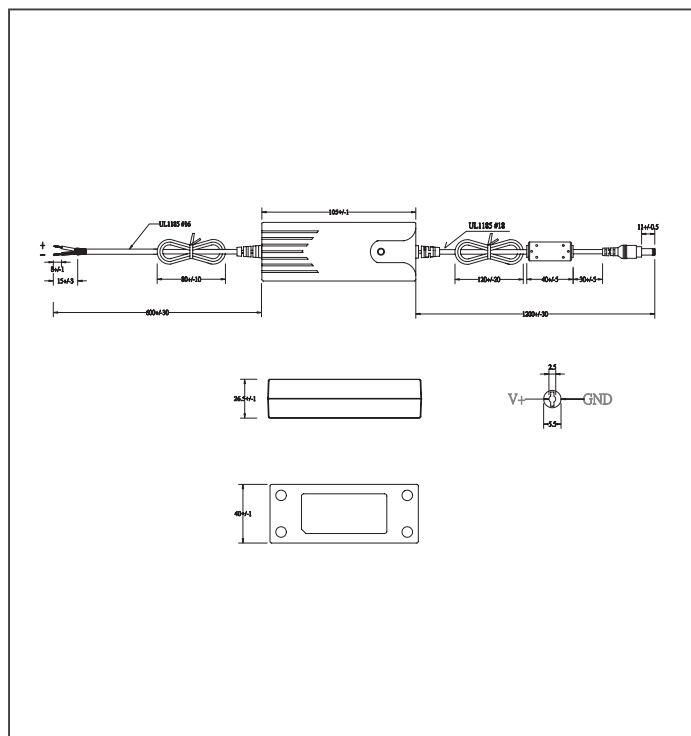
Mechanical	
Color	Black
Dimensions (W x H x D)	1050 x 65 x 5 mm

Ordering Information

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

1255900363

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



Specifications

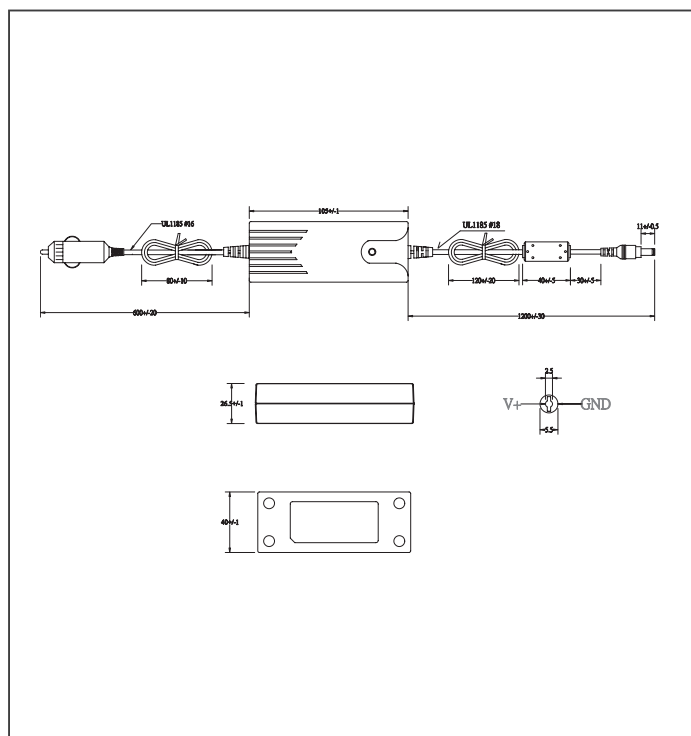
Mechanical	
Color	Black
Dimensions (W x H x D)	Adapter case: 40 x 105 x 26.5 mm
	Plug side length: 1200 ± 30 mm
	Flying Wires side length: 600 ± 30 mm
	Total length: 1905 ± 60 mm

Ordering Infomation

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

1255900364

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



Specifications

Mechanical	
Color	Black
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 Infomation

- **1255900364**
DC-To-DC Power Adapter, 12V to 36V Input, 12V/3A Output, One End-DC Jack, One End-Cigarette Plug

RTC-1010-VMP-000

VESA Mount Plate for RTC-1010M



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	275.6 x 191.7 x 25 mm

Ordering Information

- **RTC-1010-VMP-000**
VESA Mount Plate

RTC-1200HSP01-000

Hand Strap for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	260 x 92 x 30 mm

Ordering Information

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

RTC-1200BLT01-000

Shoulder Belt for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	1050 x 65 x 5 mm

Ordering Information

- **RTC-1200BLT01-000**
Shoulder Belt, 2 Points

RTC-1200BLT02-000

Shoulder Belt for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	450 x 350 x 50 mm

Ordering Information

- **RTC-1200BLT02-000**
Shoulder Belt 4 Points

RTC-1200BKT01-000

VESA Mount Bracket for RTC-1200

Rugged Tablet Computers : Accessories



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	180 x 203.3 x 45.4 mm

Ordering Information

- **RTC-1200BKT01-000**
Mounting Bracket (VESA/RAM)

RTC-1200SPC01-000

2-in-1 Protective Case for RTC-1200



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	310.3 x 204 x 36.5 mm

Ordering Information

- **RTC-1200SPC01-000**
2-in-1 Protective Case

RBC-1200-000

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



Specifications

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

Ordering Infomation

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

RTC-1200BAT01-000

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



Specifications

Mechanical	
Color	Black
Dimensions (W x H x D)	71.5 x 110 x 13.3 mm
Capacity	
Capacity	14.4V, 2270mAh, 32.7W

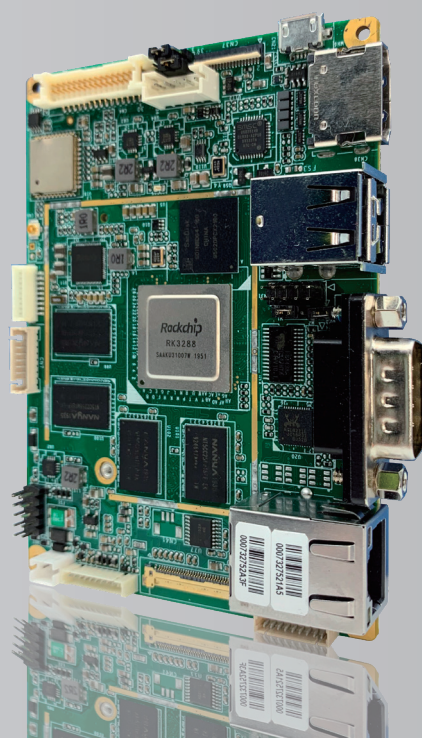
Ordering Infomation

- **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.

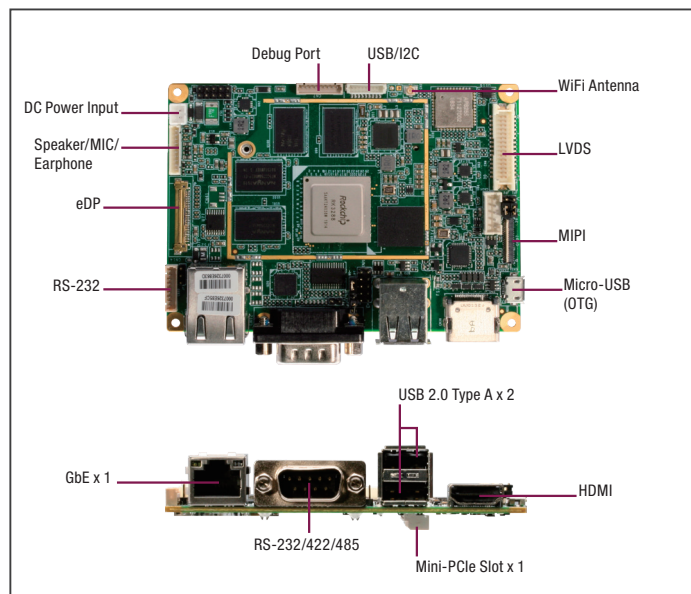
RISC Boards

02



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

System	
Form Factor	Pico-ITX (100mm x 72mm)
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz
GPU	Mali-T764
Graphics	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
Memory Capacity	Onboard DDR3L 2GB/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Android 9.0 / Debian
Kernel	Kernel 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input, Optional 7.4V battery
Power Consumption (Typical)	0.6A@12V, full load, Quad-core CPU
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
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	—

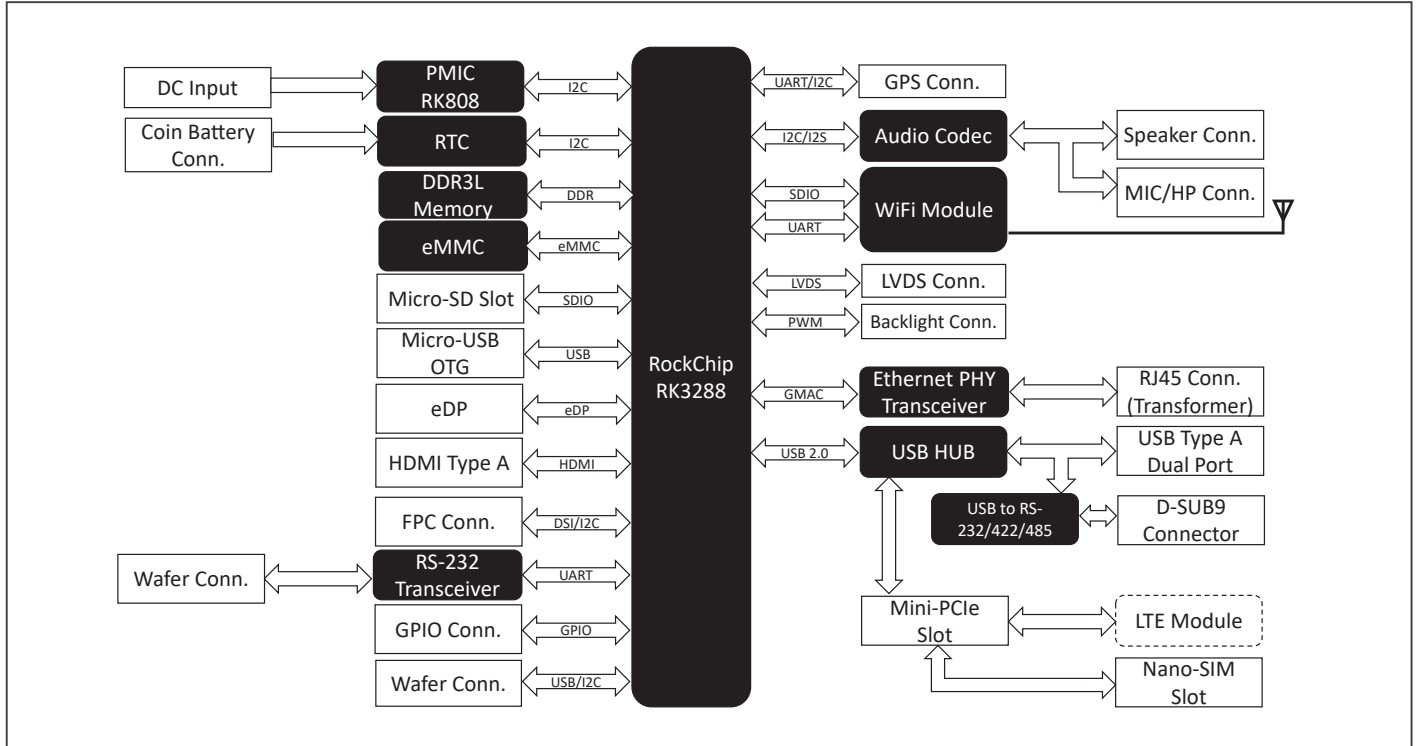
Packing List

- MB Power Cable
- RTC Battery
- RICO-3288

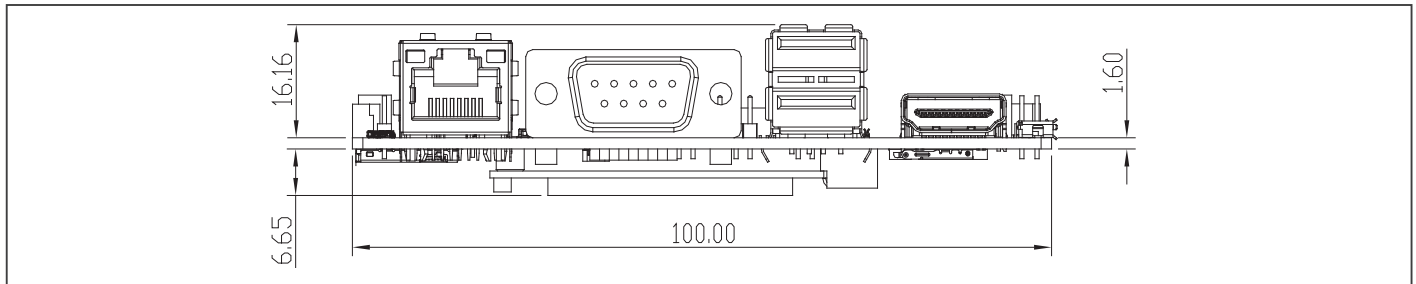
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15cm	1
125530060Y	12V/60W Power Adapter	1
9697T41704-S	NFC Board	1
9697T47700-D	GPS & Battery Charger Board	1

Block Diagram Unit: mm



Dimension Unit: mm

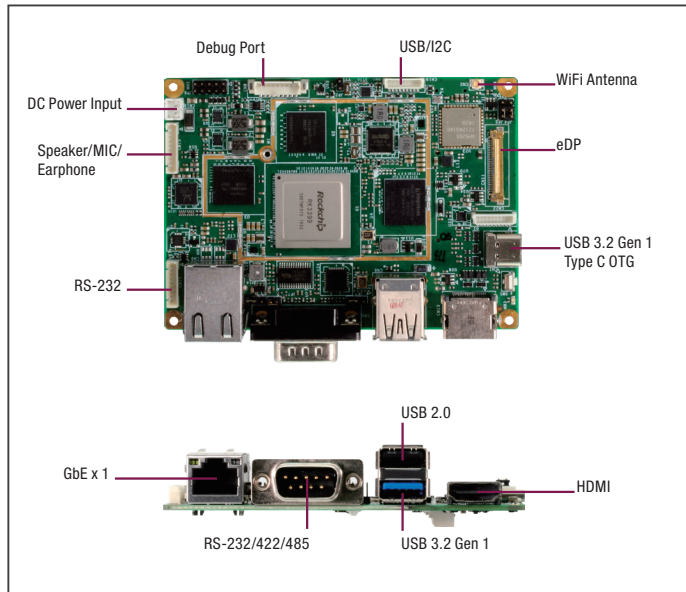


Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3288-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP) 1 (LVDS) 1 (MIPI)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)
RICO-3288-A11-0002 (MOQ: 50)	ARM Cortex-A17 1.6GHz	4GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP) 1 (LVDS) 1 (MIPI)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)

RICO-3399

Pico-ITX Fanless Board with Rockchip ARM Cortex-A72 Dual-core and Cortex-A53 Quad-core Processor



Features

- 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)



Specifications

System	
Form Factor	Pico-ITX
CPU	Rockchip RK3399 Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T864
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
Memory Capacity	Onboard LPDDR3 2GB/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Android 8.1 / Debian
Kernel	Kernel 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	0.6A@12V, full load, Hexa-core CPU
Dimension	3.94" x 2.84" (100 mm x 72 mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
HDMI	HDMI (2.0) up to 4K x 2K @60Hz
eDP	Up to 4K x 2K @60Hz
LVDS	—
MIPI	—
RF Function	
WiFi	802.11 a/b/g/n/ac
BT	Bluetooth V4.2 + EDR

I/O	
Ethernet	GbE x 1
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)
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	—

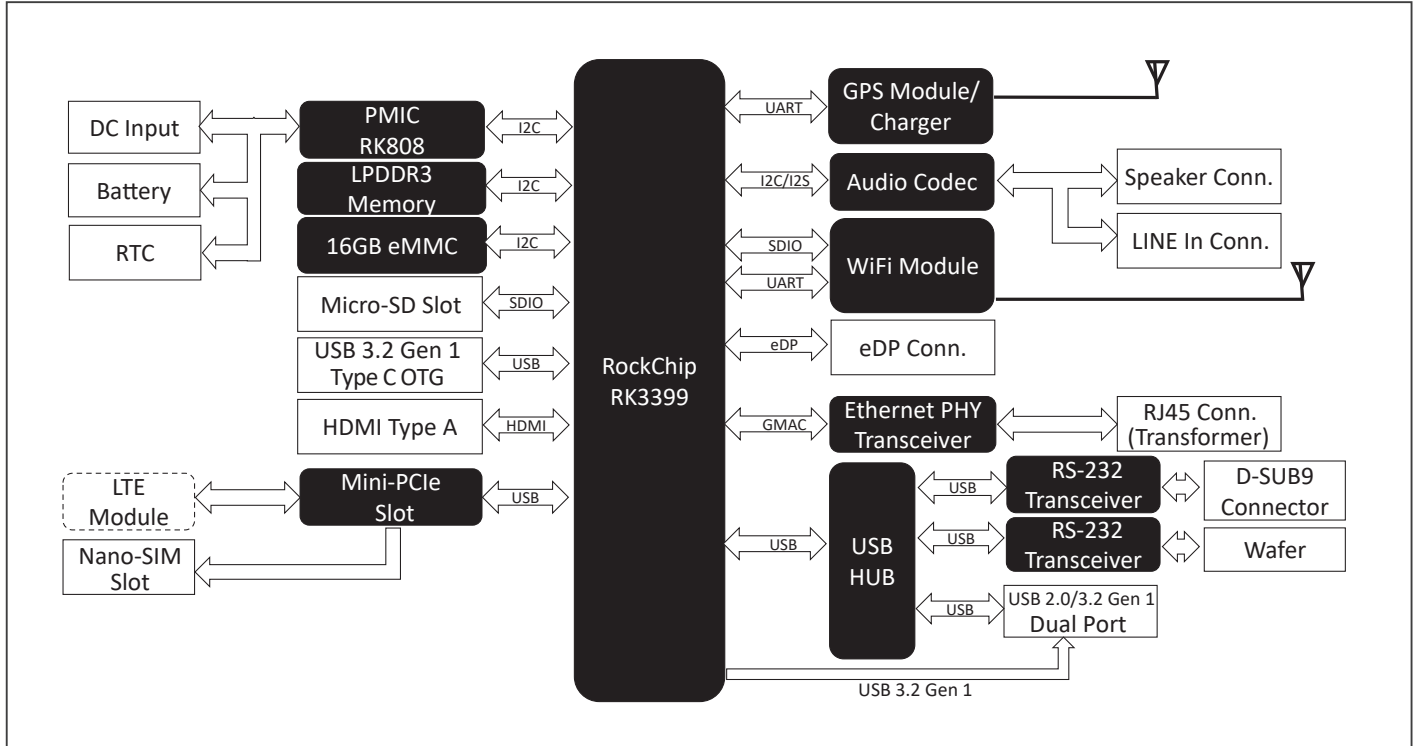
Packing List

- MB Power Cable
- RTC Battery
- RICO-3399

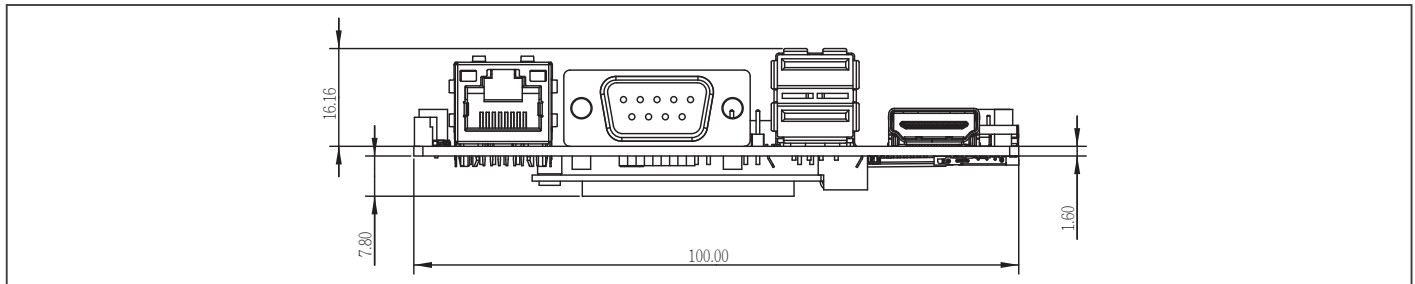
Optional Accessories

Part Number	Description	Qty.
1701090150	COM Cable, Length 15cm	1
125530060Y	12V 60W Power Adapter	1
9697T41703-S	NFC Board	1
9697T47700-D	GPS & Battery Charger Board	1

Block Diagram Unit: mm



Dimension Unit: mm

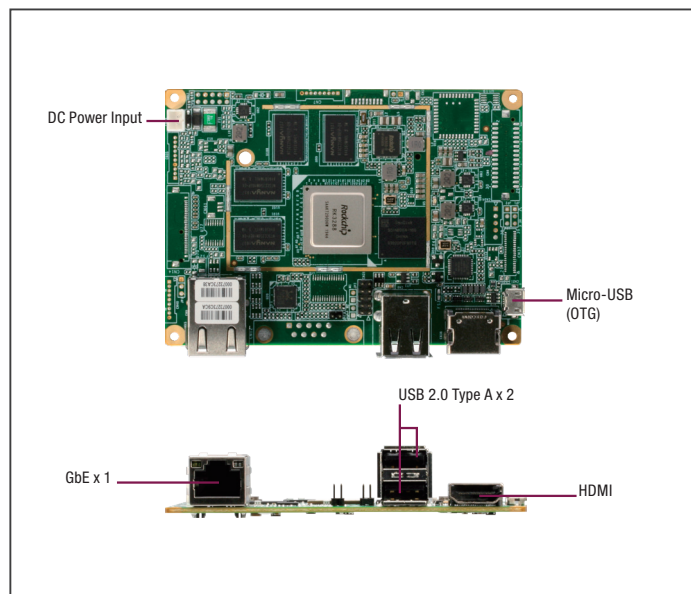


Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3399-A10-0001	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)
RICO-3399-A10-0002	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI)	—	—
RICO-3399-A10-0003 (MOQ: 50)	ARM Dual Cortex-A72 + Quad Cortex-A53	4GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232) 1 (RS-232/422/485)	4	1 (HDMI) 1 (eDP)	802.11 a/b/g/n/ac BT 4.2 + EDR	1 (mPCIe Slot)

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

System	
Form Factor	Pico-ITX (100mm x 72mm)
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6 GHz
GPU	Mali-T764
Graphics	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
Memory Capacity	Onboard DDR3L 2GB
Storage/SSD	16GB eMMC
Operating System	Android 9.0 / Debian
Kernel	Kernel 4.4
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	0.6A@12V, full load, Quad-core CPU
Dimension	3.94" x 2.84" (100mm x 72mm)
Gross Weight	0.22 lb (0.1 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	80,000
Certification	CE/FCC
Display	
HDMI	HDMI (1.4) up to 4K x 2K @60Hz
eDP	—
LVDS	—
MIPI	—
RF Function	
WiFi	—
BT	—
I/O	
Ethernet	GbE x 1
USB Port	Micro-USB OTG x 1 USB 2.0 Type A x 2
Serial Port	—
Audio	—
GPIO	8-bit (4-in, 4-out)
Expansion Slot	—
SIM Slot	—
SD Socket	—
Camera	—

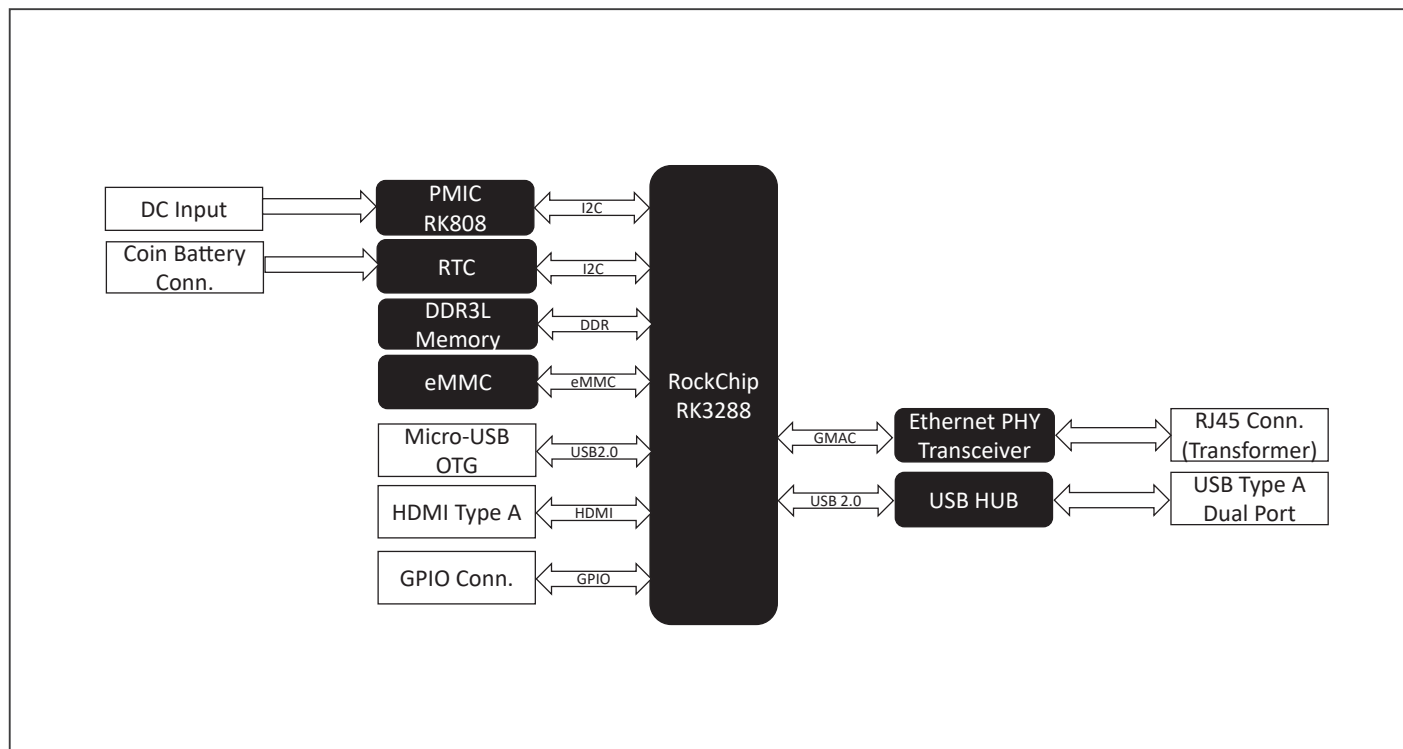
Packing List

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

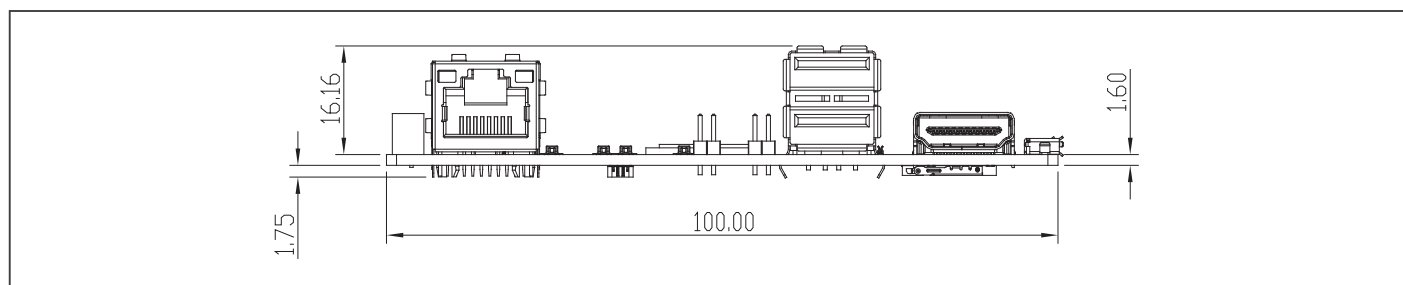
Optional Accessories

Part Number	Description	Qty.
125530060Y	12V/60W Power Adapter	1

Block Diagram Unit: mm



Dimension Unit: mm



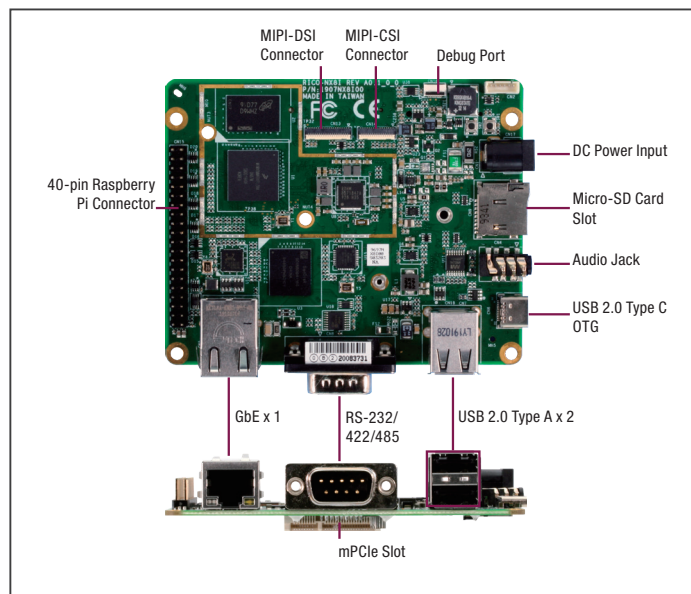
Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232/422/485	USB	Display	WiFi & BT	3G/LTE Slot
RICO-3288MINI-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	—	3	1 (HDMI)	—	—

RICO-MX8M

PRELIMINARY

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



Features

- NXP i.MX 8M Mini
- Onboard LPDDR4 2GB/4GB (Optional)
- Onboard eMMC 16GB and Micro-SD Card Slot
- MIPI, HDMI (Optional)
- WiFi & BT via M.2 WiFi/BT Module (Optional)
- GbE: RJ45 x 1
- USB 2.0: Type C OTG x 1, Type A x 2
- RS-232/422/485 x 1, RS-232 x 1, Debug Port x 1
- 28 GPIOs in 40-pin Raspberry Pi Connector
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Yocto
- Small Board Size: 100mm x 82mm



Specifications

System	
Form Factor	Pico-ITX Plus (100mm x 82mm)
CPU	NXP i.MX 8M Mini Quad Cortex®-A53 1.6GHz Cortex®-M4 400MHz processor for low-power processing
GPU	GC NanoUltra for 3D acceleration GC320 for 2D acceleration
Graphics	-1080p60 H.265, VP9 decoder -1080p60 H.264, VP8 decoder -1080p60 H.264, VP8 encoder
Memory Capacity	Onboard LPDDR4 2GB RAM/4GB (Optional)
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Yocto
Kernel	TBC
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	TBC
Dimension	3.94" x 3.23" (100mm x 82mm)
Gross Weight	0.44 lb (0.2 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBC
Certification	CE/FCC (TBC)
Display	
HDMI	Via daughter board and FPC HDMI Port Type A in daughter board
eDP	—
LVDS	—
MIPI	4-lane MIPI DSI interface
RF Function	
WiFi	Support via M.2 WiFi/BT module (Optional) (E Key) (PCIe I/F)
BT	Support via M.2 WiFi/BT module (Optional) (E Key) (PCIe I/F)

I/O	
Ethernet	GbE x 1
USB Port	USB 2.0 Type C OTG x 1 USB 2.0 Type A x 2
Serial Port	RS-232/422/485 x 1 RS-232 Pin header x 1 Debug Port x 1
Audio	Audio Line Out x 1
GPIO	28 GPIOs in 40-pin Raspberry Pi connector
Expansion Slot	40-pin Raspberry Pi connector x 1 Full-size mini-PCIe slot x 1 (For LTE module) (USB I/F)
SIM Slot	Micro-SIM
SD Socket	Push-Push Micro-SD card slot x 1
Camera	4-lane MIPI CSI interface

Packing List

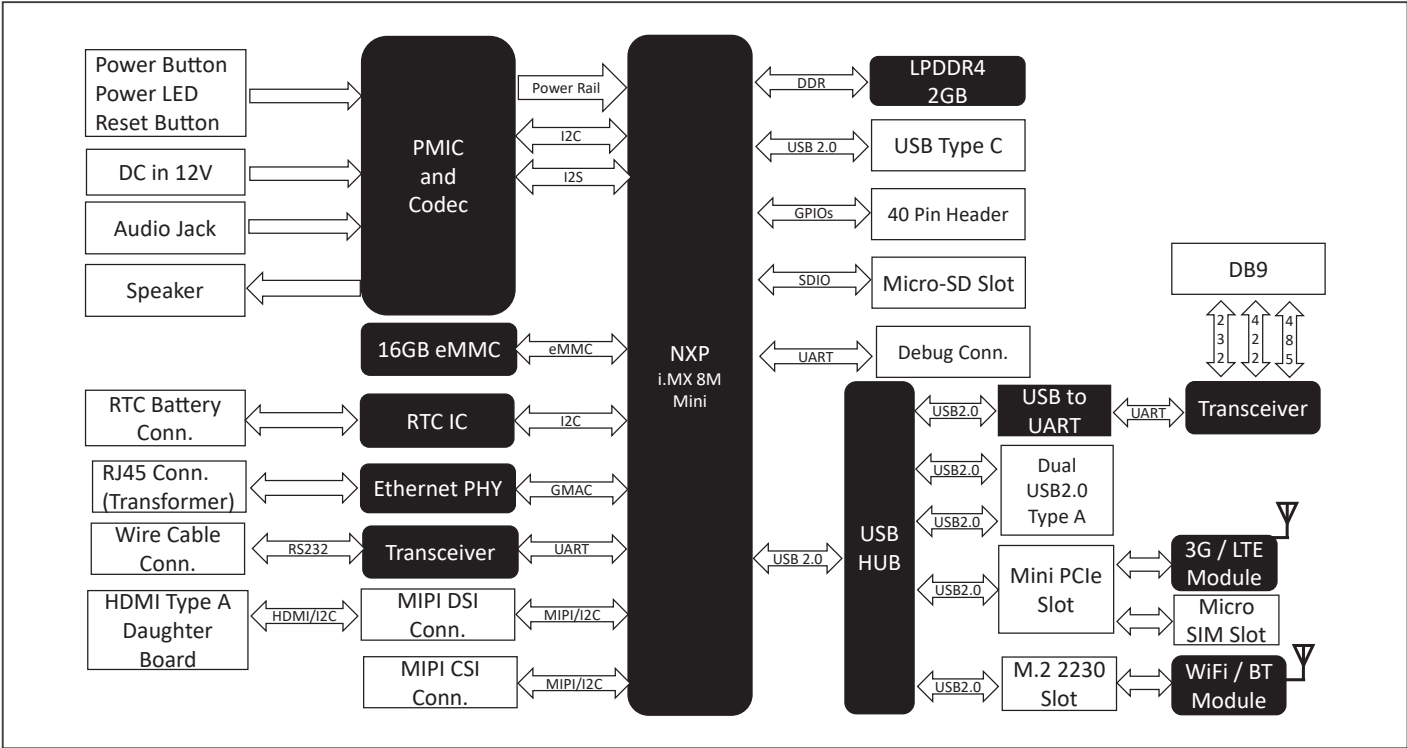
- RTC Battery
- RICO-MX8M

Optional Accessories

Part Number	Description	Qty.
TBD	12V/xxW Power Adapter	1

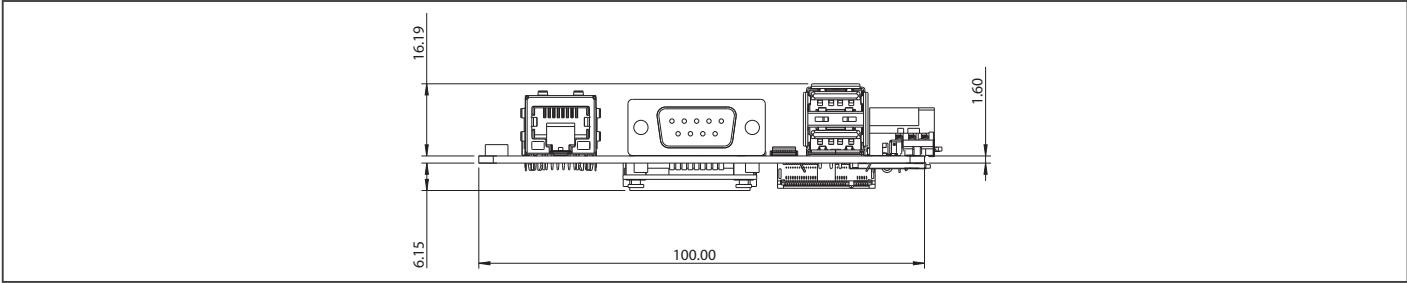
Block Diagram

Unit: mm



Dimension

Unit: mm



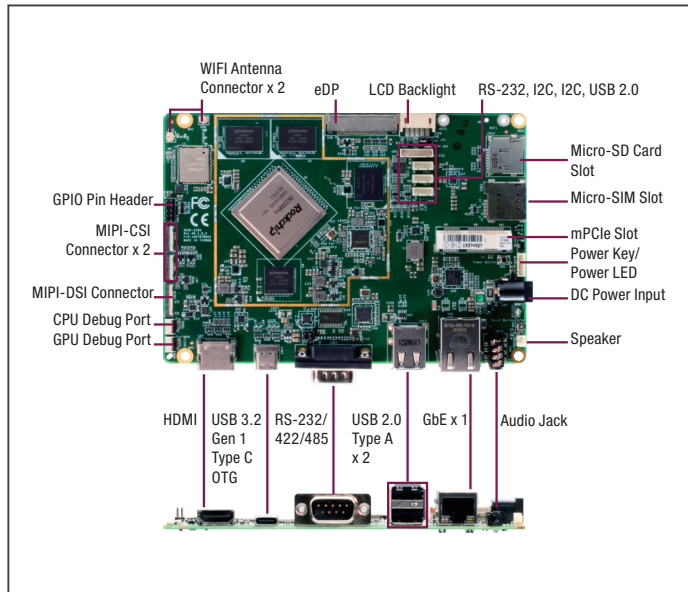
Ordering Information

• TBD

RENE-AI99

PRELIMINARY

3.5" Board with Rockchip RK3399Pro for AI



Specifications

System	
Form Factor	3.5" (146mm x 101mm)
CPU	Rockchip RK3399Pro ARM Cortex™-A72 Dual-core 1.8GHz and Cortex™-A53 Quad-core 1.4GHz
GPU	Mali-T860MP4
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
Memory Capacity	Onboard LPDDR4 4GB for CPU Onboard LPDDR3 1GB for NPU
Storage/SSD	16GB eMMC and Micro-SD card
Operating System	Debian
Kernel	4.4 (TBC)
Watchdog Timer	Integrated
Power Requirement	+12V DC input
Power Consumption (Typical)	TBC
Dimension	5.75" x 3.98" (146mm x 101mm)
Gross Weight	0.55 lb (0.25 Kg)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	TBC
Certification	CE/FCC (TBC)
Display	
HDMI	HDMI (2.0) up to 4K x 2K @ 60Hz
eDP	Up to 4K x 2K @ 60Hz
LVDS	—
MIPI	Dual channel MIPI-DSI (4 lanes per channel) x 1 Up to 2560 x 1440 @60Hz
RF Function	
WiFi	802.11 a/b/g/n/ac
BT	Bluetooth V5.0

Features

- Rockchip RK3399Pro
- NPU: Up to 3.0TOPS
- Onboard LPDDR4 2GB (Optional)/4GB for CPU
- Onboard LPDDR3 1GB for NPU
- Onboard eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0), eDP, MIPI
- WiFi 802.11 a/b/g/n/ac, BT V5.0, GPS (Optional), NFC (Optional)
- GbE: RJ45 x 1
- USB 3.2 Gen 1: OTG x 1, USB 2.0: Type A x 2, Wafer 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: Debian
- Board Size: 146mm x 101mm (3.5")



I/O	
Ethernet	GbE x 1
USB Port	USB 3.2 Gen 1 Type C OTG x 1 USB 2.0 Type A x 2, USB 2.0 Wafer x 1
Serial Port	RS-232/422/485 x 1 RS-232 Wafer x 1, Debug port connector x 2
Audio	Audio Line Out Jack x 1, Speaker Wafer x 1
GPIO	8-bit (4-in, 4-out) Pin header x 1, I2C Wafer x 2
Expansion Slot	Full-size mini-PCIe slot x 1 (For 3G/4G card)
SIM Slot	Micro-SIM
SD Socket	Push-Push Micro-SD card slot x 1
Camera	MIPI-CSI x 2

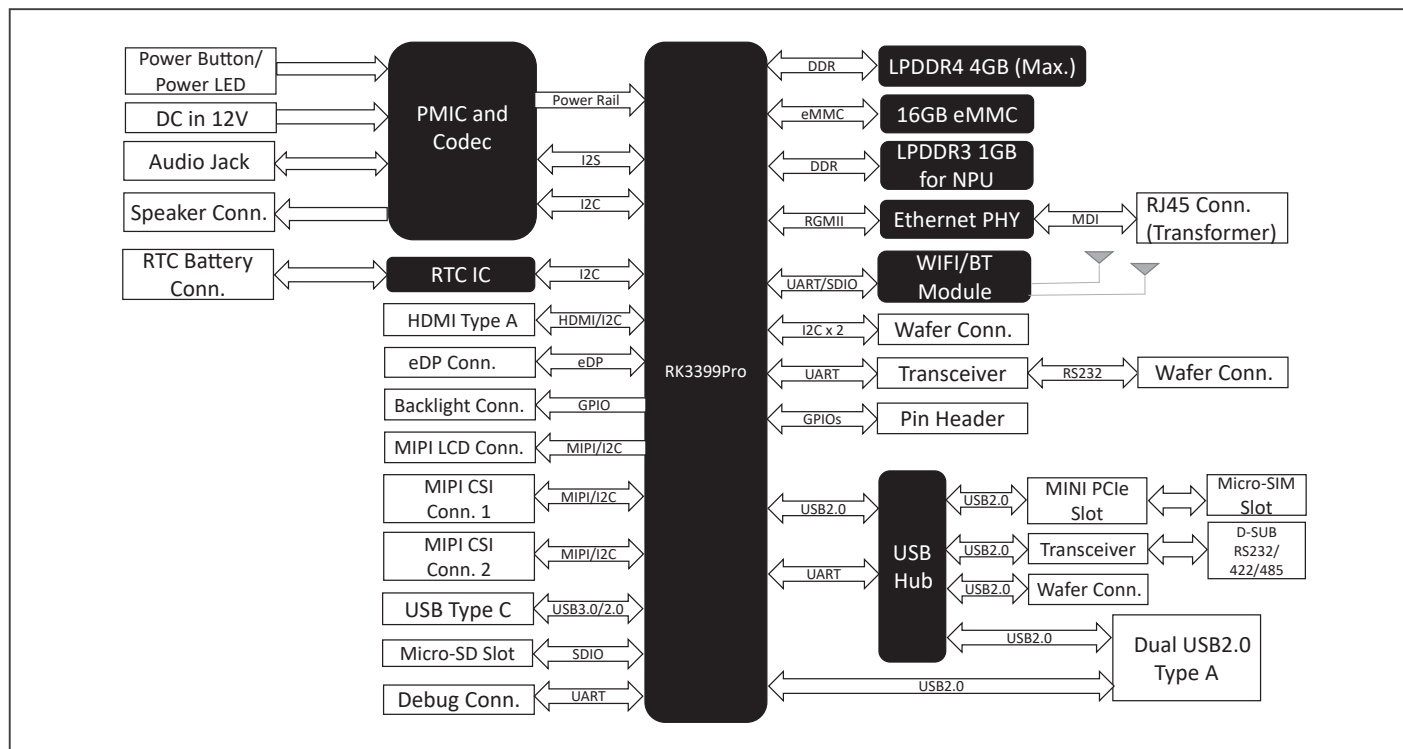
Packing List

- RTC Battery
- RENE-AI99

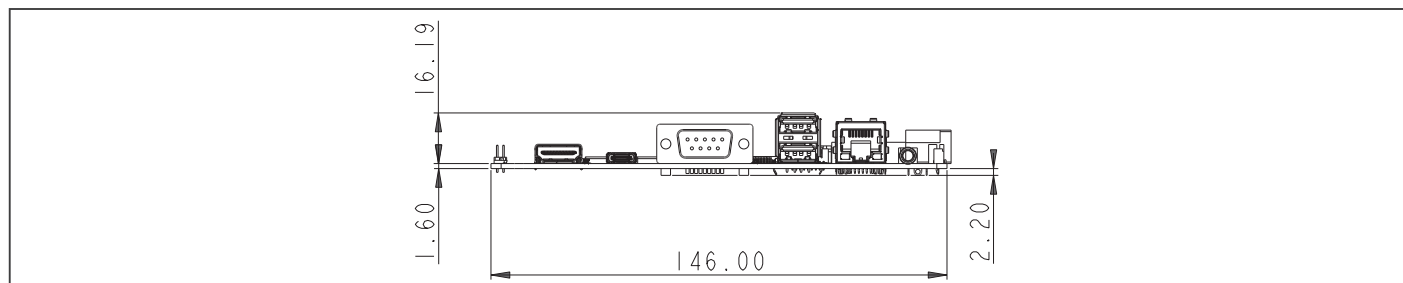
Optional Accessories

Part Number	Description	Qty.
TBD	12V/xxW Power Adapter	1

Block Diagram Unit: mm



Dimension Unit: mm



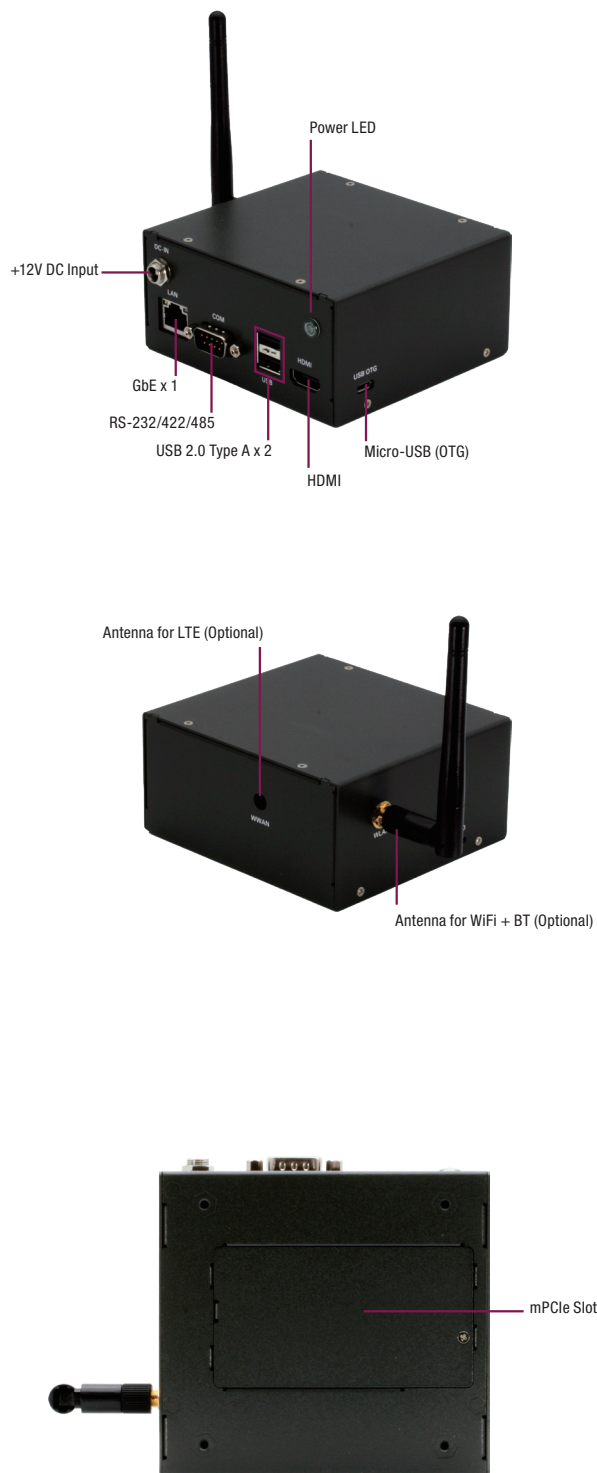
Ordering Information

- TBD

BOXER-RK88

PRELIMINARY

Fanless Embedded Box PC with Rockchip RK3288



Features

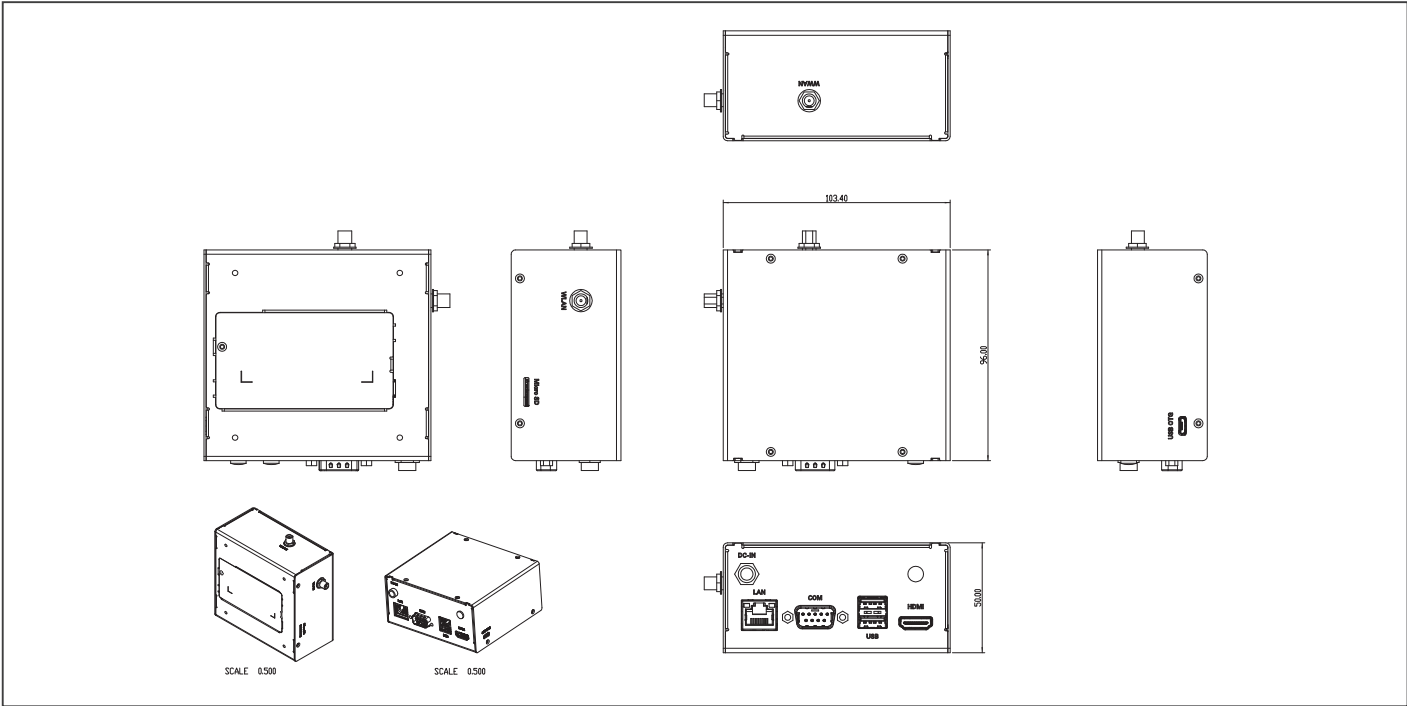
- Rockchip RK3288
- DDR3L 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (1.4) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 2.0: Micro-USB OTG x 1, Type A x 2
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: Android 9.0
- Compact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

Specifications

System	
CPU	Rockchip RK3288 ARM Cortex™-A17 Quad-core 1.6GHz
GPU	Mali-T764
Chipset	N/A
Graphics	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
System Memory	DDR3L 2GB/4GB (Optional)
Display Interface	HDMI (1.4)
Storage/SSD	16GB eMMC and Micro-SD card
I/O	Micro-SD Card Slot x 1 HDMI (1.4) 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 2.0: Micro-USB OTG x 1, Type A x 2 RS-232/422/485 x 1, RS-232 x 1 (Optional)
Expansion	mPCIe Slot x 1 for LTE module
Indicator	Power LED x 1
OS Support	Android 9.0
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	N/A
Certification	CE/FCC/IC

Dimension

Unit: mm



Packing List

- BOXER-RK88

Optional Accessories

- 125530060Y
12V / 60W Power Adapter
- 175990001X
WiFi 2.4GHz, External Antenna
- 9741EG25G0
EG25-G, W/ SIM Card Holder, RF Cable, External Antenna
- M04BIBX000
Wall-mount Plate

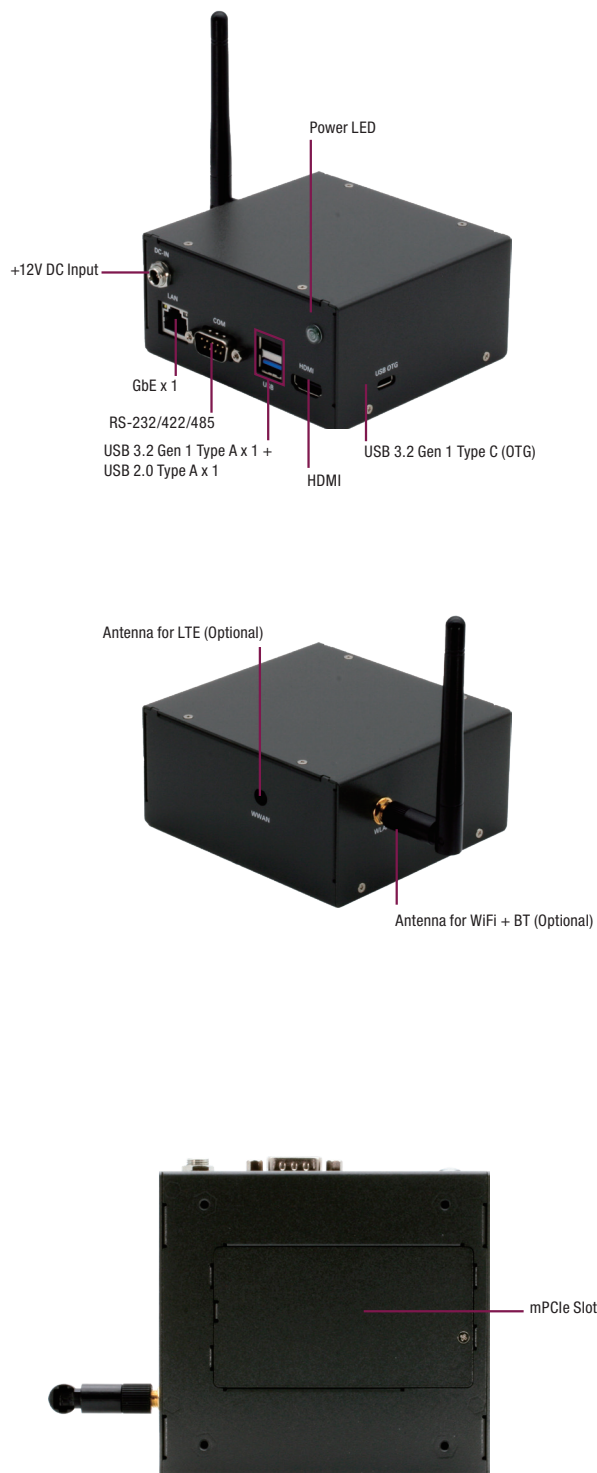
Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
BOXER-RK88-A11-0001	ARM Cortex-A17 1.6GHz	2GB DDR3L	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 b/g/n BT 4.2 + EDR	1 (mPCIe Slot)

BOXER-RK99

PRELIMINARY

Fanless Embedded Box PC with Rockchip RK3399



Features

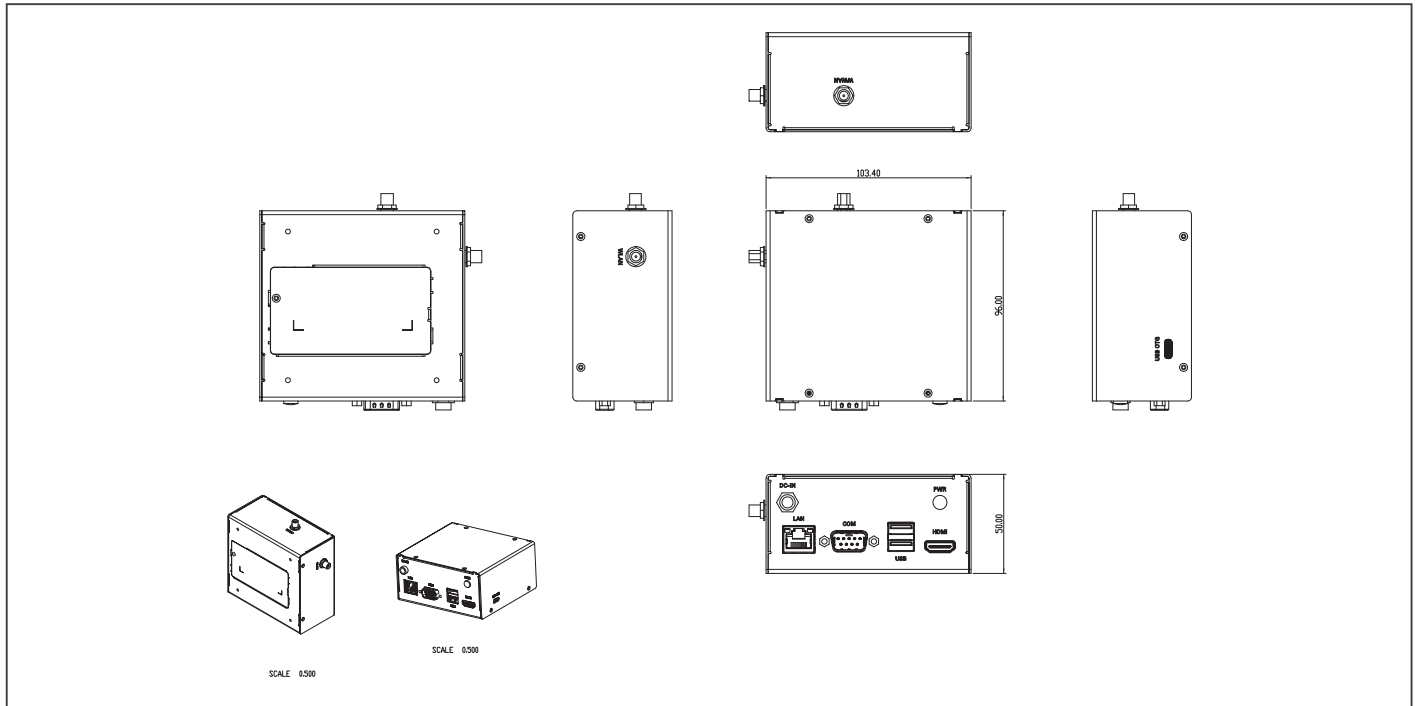
- Rockchip RK3399
- LPDDR3 2GB/4GB (Optional)
- eMMC 16GB and Micro-SD Card Slot
- HDMI (2.0) Port x 1
- WiFi 802.11 b/g/n, BT V4.2
- GbE: RJ45 x 1
- USB 3.2 Gen 1: Type C OTG x 1, Type A x 1
- USB 2.0: Type A x 1
- RS-232/422/485 x 1, RS-232 x 1 (Optional)
- mPCIe Slot x 1
- +12V DC Input
- OS Support: 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	N/A
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)
Expansion	mPCIe Slot x 1 for LTE module
Indicator	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	N/A
Certification	CE/FCC/IC

Dimension

Unit: mm



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
- **M04BIBX000**
Wall-mount Plate

Ordering Information

Part Number	CPU	RAM	Storage	LAN	RS-232	USB	Display	WiFi & BT	3G/LTE Slot
BOXER-RK99-A10-0001	ARM Dual Cortex-A72 + Quad Cortex-A53	2GB LPDDR3	16GB eMMC	GbE x 1	1 (RS-232/422/485)	3	1 (HDMI)	802.11 a/b/g BT4.2 + EDR	1 (mPCIe Slot)



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