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RUGGED MOBILE COMPUTING SOLUTIONS



GSA Contract Holder
GS-35F-0470Y

Focus • Agility • Competitiveness



Mobile Computing Solutions

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



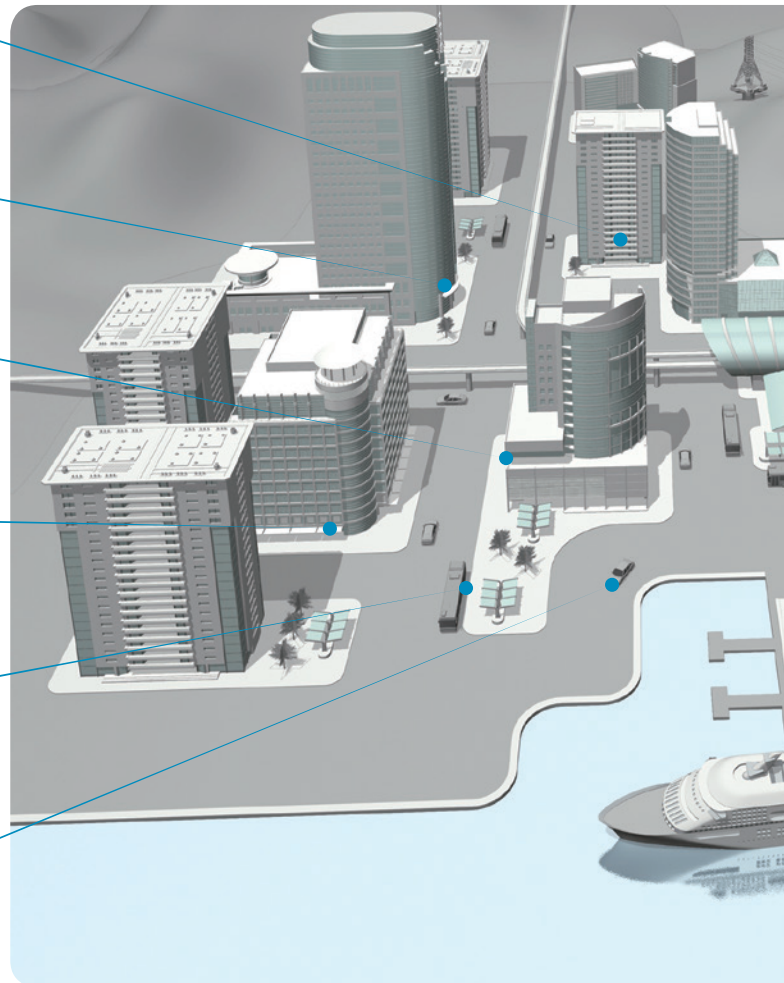
Access Control

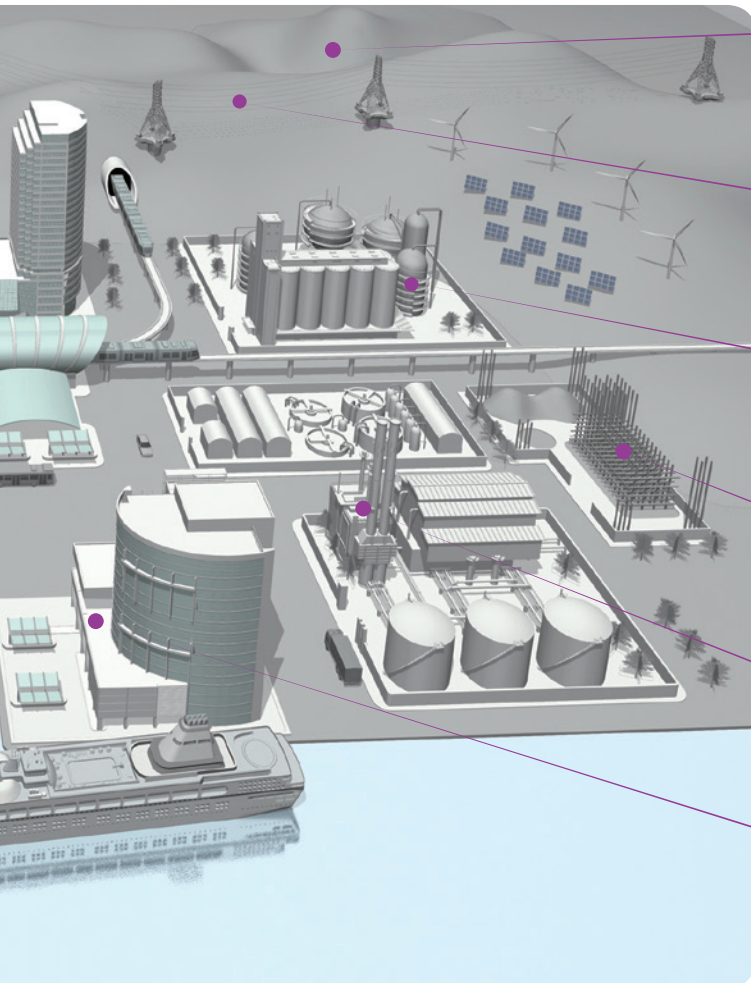


e-Ticketing



Fleet Management





Aerial Photography



Heavy Machinery



Factory Automation



Construction



Field Inspection



Logistic/Warehouse Management





Military



Requirements

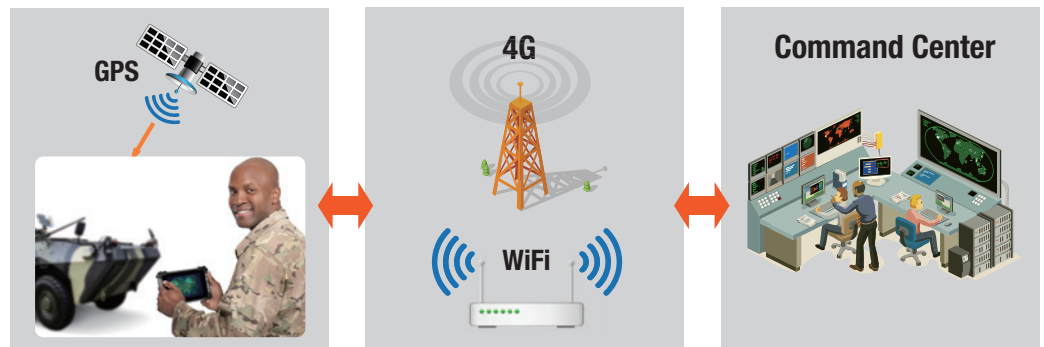
- IP65-rated
- MIL-STD-810G-compliant
- Sunlight readable screens
- Wireless Communication
- Long battery life
- Lightweight



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.



Field Service



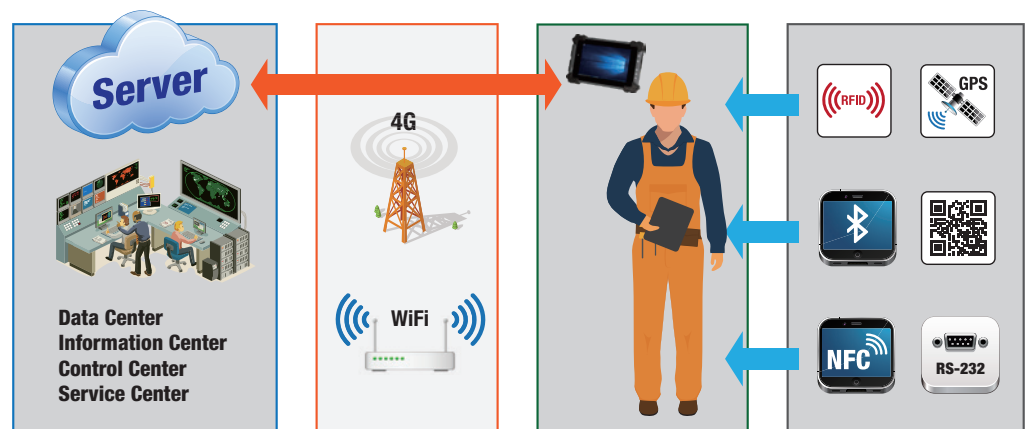
Field Service

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





Fleet Management



Fleet Management

As the transportation sector begins to deploy edge computing technologies to their fleets, rugged mobile computing provides a flexible solution to bringing intelligent applications into fleet management. From the rugged RTC-710RK all the way up to the RTC-1200, AAEON rugged tablet PCs provide a suite of features that are perfect for quickly integrating and deploying these vital tools. Voltage protection, vibration resistant and MIL-STD-810G compliance means these rugged computing platforms can hold up to the stresses of in-vehicle deployment.

With support for 4G/LTE communication, AAEON rugged tablets provide the vital link needed to connect the vehicle to cloud services or fleet management servers. With flexible I/O that's expandable with docking stations, AAEON rugged tablets are able to connect with other in-vehicle electronics to provide diagnostics and vehicle status. Built-in GPS also allows drivers to plan routes as well as delivering vehicle location and speed to fleet managers.

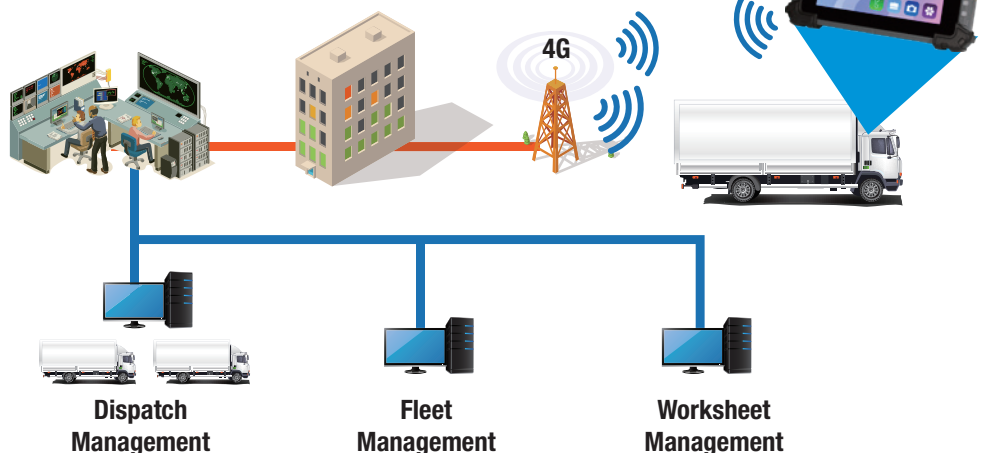


Requirements

- Sunlight readable screens
- Vibration resistant
- Wireless Communication
- Voltage Tolerance for Vehicle Operations

Service Center

Telecom Server Center



Law Enforcement



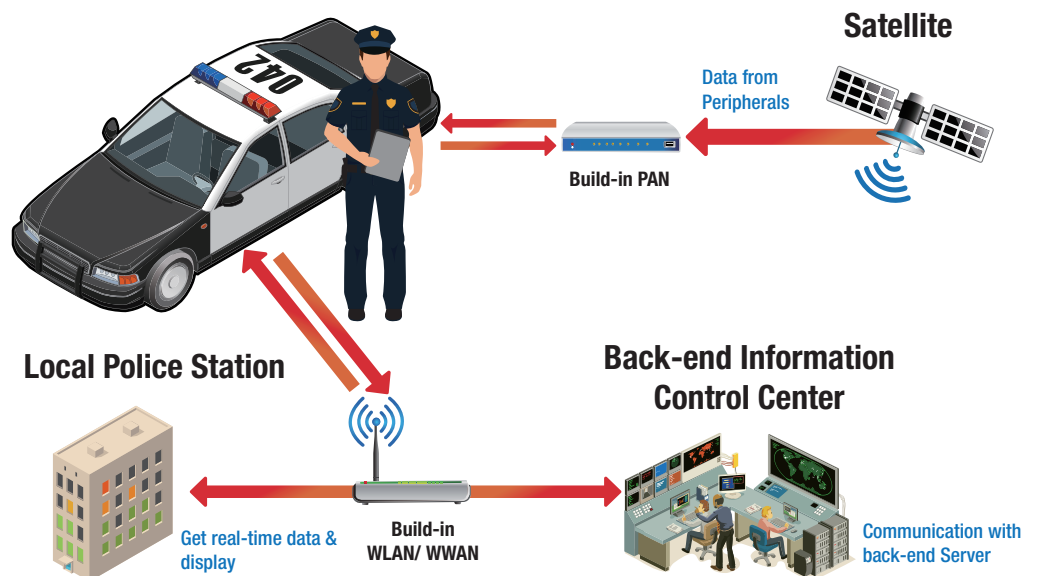
Law Enforcement

Across the globe, police departments are turning towards mobile computing to help keep officers connected and informed. Communication and information provide officers with the tools they need to protect communities and enforce laws. AAEON rugged mobile computing solutions are built tough to meet the demands of constant on-duty service. Boasting IP65 rated enclosures and hot-swappable batteries, the RTC-710AP, RTC-710RK and RTC-1010 provide reliable service that lasts the whole shift.

For communication on the go, these systems provide support for 4G/LTE, Wi-Fi and Bluetooth to keep police connected with their precincts and allow easy transfer of data or cross-checking databases. The I/O features on AAEON rugged tablets allow integration with other electronic devices, such as dash cameras, vehicle diagnostics and more. Police can also quickly check their location thanks to built-in support for GPS.

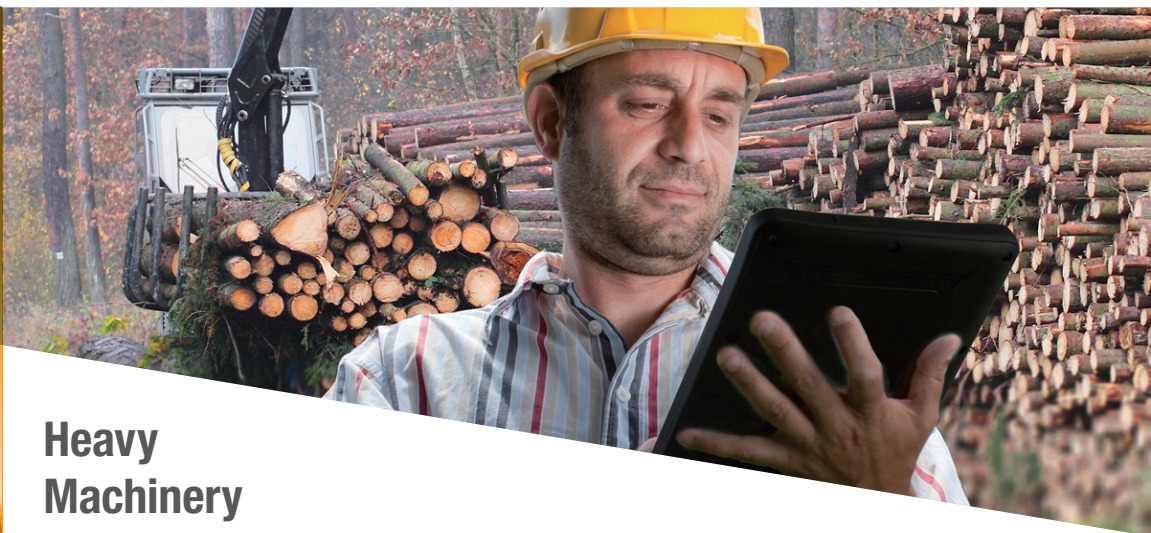
Requirements

- Sunlight readable screens
- Vibration & Water Resistant
- Wireless Communication
- Long battery life
- Lightweight





Heavy Machinery



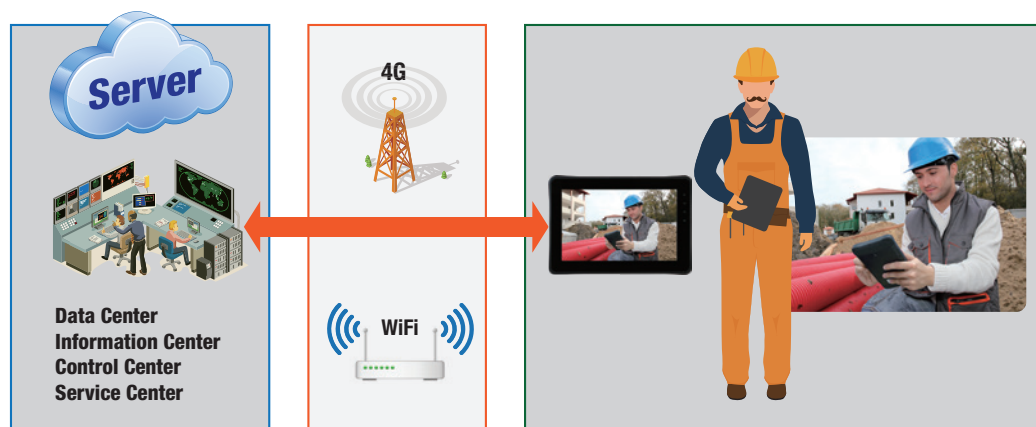
Heavy Machinery

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



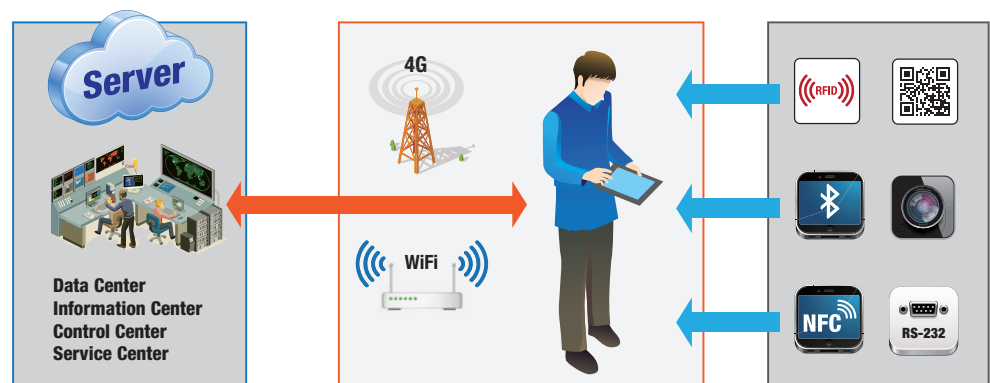
Warehousing

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.

Requirements

- Sunlight Readable Screens
- Vibration & Water Resistant
- Wireless Communication
- Long Battery Life
- Lightweight
- Mechanical Control





E-Ticketing



E-Ticketing

From train conductors to bus drivers and parking enforcement, E-Ticketing is a versatile tool to quickly issuing fares without the tedium of hand-written notes. The RTC-710AP and RTC-710RK make great choices for hand-held operations, ensuring that the conductor or parking attendant is able to accurately track fares and issue the appropriate tickets. Accessories such as NFC/RFID Smart Card readers, barcode scanners and I/O ports to attach mobile printers make these rugged tablet solutions perfect for the job.

For larger scale needs, the RTC-1010 and RTC-1200 have already seen real-world deployment on busses and transit for onboard issuing of tickets or managing payment with Smart Cards. Their rugged design holds up to the vibrations and bumps of in-vehicle operations, while powerful I/O suite allows for connecting to in-vehicle systems.

No matter the size, from 7" to 11.6", AAEON rugged tablets provide wireless connectivity through Wi-Fi, 4G/LTE and Bluetooth. With docking stations, these tablets can go quickly from fixed to handheld operations, allowing maximum flexibility in deployment.

Requirements

- Sunlight readable screens
- Vibration resistant
- Wireless Communication
- Long Battery Life
- Lightweight
- Accessories for Expanded Functions





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 22.6W 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® Pentium™ N4200 1.1GHz Quad Core Up to 2.5GHz (N3350 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

RTC-700B

Windows-based 7" x 86 Rugged Tablet Computer



- 7" WXGA (1280 x 800) TFT LCD Display, 400 nits, Sunlight Readable (Optional)
- Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor
- DDR3L - RS 1600 2GB/4GB (Optional)
- Projected Capacitive Multi-Touch Panel, Gorilla Glass
- Extended Battery Swappable, MIL-STD-810G, IP65 Compliant, Drop 122cm
- GPS/GLONASS Simultaneously
- WiFi 802.11 b/g/n, BT4.0
- Supports NFC/RFID (Optional), Ethernet + COM Port (Optional)
- 1D/2D Barcode Scanner with Trigger Button
- MSR (Optional)/ SCR (Optional)
- G-Sensor, Light Sensor, E-Compass
- Windows® 10

RTC-1020

Windows-based 10.1" Rugged Tablet Computer



- 10.1" FHD (1920 x 1200) 1000-nit / 300-nit TFT LCD
- Intel® Core™ i Tiger Lake UP3 Processor
- Onboard LPDDR4, Up to 8GB
- M.2 SSD, 64GB (Default)
- Projective Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 5.1, LTE (Optional)
- 2MP Front and 8MP Rear Camera
- RS-232/422/485 COM Port + 10/100/1000 Base-T RJ45
- USB 3.0 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
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F0, F1, F2, F3, Volume Up/Down, With LED Illumination
- Windows® 10 IoT



Featured Products

RTC-1010

Windows-based 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)
- 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

RTC-1010M

Windows-based 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

Windows-based 11.6"
Rugged Tablet Computer



- 11.6" FHD (1920 x 1080) 1000-nit / 300-nit TFT LCD
- Intel® Core™ i 7300U / 7100U / Celeron® 3965U Up to 3.9 GHz
- One DDR3L SODIMM Socket, Up to 8GB
- One M.2 Slot for SATA SSD, 64GB (Default)
- 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 2.0 x 2, USB 3.2 Gen 1 x 1 (Type C) (Optional)
- 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)



Fully-Rugged Design



Water Resistant

- IEC 60529
- IPx5 standard



Drop Test

- MIL-STD-810G Method 516.6 Procedure IV



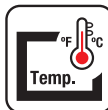
Dust Proof

- 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



Without AOT™ With AOT™



Long Battery Life

- Hot-swappable batteries design

Built-in Versatile Sensors



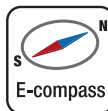
GPS

- Stand-alone GPS Navigation module



G Sensor

- Gravity sensor



E-Compass

- Electronic compass



Gyro Sensor

- Electronic gyroscopes

Wireless Communication



4G

- LTE



Bluetooth®

- 2.1/3.0/4.0/5.0



WiFi

- a/b/g/n/ac



NFC

- 13.56MHz Near Field Communication



RFID

- 13.56MHz Radio Frequency Identification





Accessories

RTC-1010 & RTC-1010M

RDS-411 (Rugged Docking Station)

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



RTC-1010-HS-000

- Hand Strap for RTC-1010/ RTC-1010M



RTC-1010-SB-000

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



1255900363

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



1255900364

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



RTC-1010-VMP-000

- VESA Mount Plate for RTC-1010/ RTC-1010M



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-1200BKT01-000

- VESA Mount Bracket for RTC-1200



RTC-1200BLT02-000

- Shoulder Belt 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.

RTC-700B

RDS-0310 For RTC-700 Series

- Desktop docking station
- 12V DC Input
- USB 2.0 x 4, RJ-45 x 1
- Micro HDMI x 1, RS-232 x 1
- Power Indicator



Tablet Bag



Customized Services

- Longevity Support
- ODM Services
- Small Minimum Order Quantity

Ordering Information



RTC-710RK

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	Docking Connector	2D Barcode Scanner	NFC	Battery
RTC-710RK-R0001	RK3399K	Android 8.1	7" 300 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 8MP	—	—	—	11.3W
RTC-710RK-RH0002	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/Galileo/GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	Yes	11.3W + 11.3W
RTC-710RK-RH0003	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	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)	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/Galileo/GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	Yes	11.3W + 11.3W
RTC-710RK-RH0004	RK3399K	Android 8.1	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	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 2D BCR x 1 (Via I/O Module)	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS/Galileo/GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	Yes	Yes	11.3W + 11.3W

RTC-710AP

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	Docking Connector	2D Barcode Scanner	NFC	Battery
RTC-710AP-R0001	N4200	Windows 10 IOT	7" 300 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 2MP	—	—	—	11.3W
RTC-710AP-RH0002	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	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	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	11.3W + 11.3W
RTC-710AP-RH0003	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	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 RS232 Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)	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	11.3W + 11.3W
RTC-710AP-RH0004	N4200	Windows 10 IOT	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 64GB	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 2D BCR x 1 (Via I/O Module)	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	11.3W + 11.3W



Ordering Information

RTC-700B

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Bluetooth	4G Bands (MHz)	Navigation
RTC-700B-TAD-WBGL-11A1	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR	FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: B3/B8	GPS/Glonass/AGPS*
RTC-700B-TAD-WBGL-11A2	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR		GPS/Glonass/AGPS*
RTC-700B-TAD-WBGL-11A0	Intel® Atom™ x5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	7" TFT LCD	Pcap 10-point	DDR3L-RS 1600 2GB	64GB Flash eMMC	Windows® 10	802.11b/g/n +BT4.0+EDR		GPS/Glonass/AGPS*

Part Number	Navigation	Sensor	Camera	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	2D Barcode Scanner	Com + Ethernet
RTC-700B-TAD-WBGL-11A1	GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscopex 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V, 1530mAh, External: 7.4V, 1530mAh	USB A x 1, MiniUSB x 1, USB 3.2 Gen 1 x 1, micro SD x 1, SIM Card x 1	L219.4 x W135.58 x H 21.2mm, 640g	-4°F ~ 122°F (-20°C ~ 50°C)	Meet IEC 60529 IP-65 standard, Mil Std 810G-516.6, Procedure IV, 26 drops of 48" height to 2" plywood over concrete with bumpers & uNits off, 2 units to pass	Yes	—
RTC-700B-TAD-WBGL-11A2	GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscopex 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V, 1530mAh, External: 7.4V, 1530mAh					—	Yes
RTC-700B-TAD-WBGL-11A0	GPS/ Glonass/ AGPS*	Light Sensor x 1, G Sensor x 1, 3-axis digital groscopex 1, Vibrator x 1	Front: 2MP, Back: 8MP	Dual-Battery, Internal: 7.4V, 1530mAh, External: 7.4V, 1530mAh					—	—

RTC-1010

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
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	G-sensor E-compass Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 2MP	—	—	32.7W
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
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
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
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
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

Ordering Information



RTC-1010M

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
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
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
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

RTC-1200

Part Number	CPU	LCD Display	Touch Screen	System Memory	Storage	OS	WiFi/Bluetooth	LTE Bands (MHz)	Navigation	Sensor	Camera	Battery	Expansion I/O	Size & Weight	Operation Temp	Durable	HF RFID	2D Barcode Scanner
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	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 810G-516.6, Procedure IV Mil Std 810G-514.6, Procedure I 26 drops of 48" height to 2" plywood over concrete with bumpers & unit off 2 units to pass	—	—
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		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		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		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		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		310.4 mm x 200 mm x 24.5 mm, 1.5Kg	-4°F ~ 140°F (-20°C ~ 60°C)		Yes	—



Selection Guide



Model	RTC-700B	RTC-710RK	RTC-710AP
System Architecture			
Processor	Intel® Atom™ X5-Z8350 CHT-T3 Quad Core 1.92 GHz Processor	Rockchip RK3399 Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)	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	Android 8.1	Windows® 10 IOT Enterprise SAC
Memory	Onboard 2GB DDR3L (4G Optional)	Onboard LPDDR4 2GB (Default) / 4GB	Onboard LPDDR4 4GB (Default) / 8GB
Storage	Onboard 64GB eMMC	eMMC 16GB (Default) / 32GB	eMMC 64GB (Default) / 128GB
Display	7" TFT-LCD / 16:10, with Projected Capacitive Multi-Touch screen	7" WXGA (1280x800) 700-nit / 300-nit TFT LCD	7" WXGA (1280x800) 700-nit / 300-nit TFT LCD
I/O Port	DC-in jack x 1, MicroSD Card x 1, SIM card slot x 1, USB 2.0 x 2 (A Type x 1, Mini USB x 1), USB 3.2 Gen 1 x 1 (Type C), Built-in Speaker & Microphone x 1, 3.5mm stereo headphone jack x 1, 1D/2D Barcode scanner x 1 (Optional), Magnetic Stripe Reader x 1 (Optional), COM port x 1 + Ethernet x 1 (Optional)	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)	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	Bluetooth v4.0, Wi-Fi (802.11 b/g/n), NFC / RFID (13.56MHz), 3G (Optional)	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR + BLE)	Wi-Fi 802.11 b/g/n, Bluetooth v4.2
Navigation	GPS, Glonass	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna	Up to 3 GNSS, GPS + Galileo (Default), GLONASS, BeiDou (Optional) External Antenna
WWAN (optional)	LTE*	LTE via M.2 slot (Optional)	LTE via M.2 slot (Optional)
Camera	2 MP front camera, 8 MP auto-focus rear camera with flash	8MP front camera, 8MP rear camera with flash	2MP front camera, 8MP rear camera with flash
Sensor	G-sensor, E-Compass, Gyroscope, Light-sensor	G-sensor, E-Compass, Gyroscope, Light-sensor	G-sensor, E-Compass, Gyroscope, Light-sensor
Expansion Slot	Docking	M.2 slot x 1, Docking connector: USB 3.2 Gen 1 x 1	M.2 slot x 1, Docking connector: USB 3.2 Gen 1 x 1
Barcode Scanner (Optional)	1D Scanner support CMOS engine (Optional), 2D Scanner support LED engine	2D Barcode scanner, OPTICON MDI-4100-USB via I/O module (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	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type	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	—	F1(Barcode Scanner Trigger), F2 (Screenprint), F3 (Audio on/off), Volume Up, Volume Down	F1(Barcode Scanner Trigger), F2 (Screenprint), F3 (Ctrl+Alt+Del as Soft Reboot), Volume Up, Volume Down
Mechanical			
Color	Black	Dark Grey	Dark Grey
Dimensions (W x H x D)	5.38" x 8.58" x 0.83" (136.6mm x 219mm x 21mm)	219.8 x 138.8 x 20.4 mm (8.65" x 5.46" x 0.80")	219.8 x 138.8 x 20.4 mm (8.65" x 5.46" x 0.80")
Gross Weight	1.254 lb (0.57 kg)	1.54 lb (0.64 kg) based on configurations	1.54 lb (0.64 kg) based on configurations
Environmental			
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)	-20°C ~ 60°C (-4°F ~ 140°F) for high-brightness version	-20°C ~ 60°C (-4°F ~ 140°F) for high-brightness version
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)	-55°C ~ 70°C (-67°F ~ 158°F)	-55°C ~ 70°C (-67°F ~ 158°F)
Humidity	50°C; 5% ~ 90% R/H; 120 hours, non-condensing	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing
Environmental Sealing	IP65	IP65	IP65
Vibration	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2	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	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	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
ESD	Up to Air charge: +/- 15KV, Contact charge: +/- 8KV	Air charge: +/- 8KV, Contact charge: +/- 4KV	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL: UL60950-1, CE/LVD: EN60950-1, CE, FCC	UL62368, CE, FCC	UL62368, CE, FCC
Power Supply			
AC/DC Adapter	AC 100~240V, 50~60Hz; DC 12V/3A (36W)	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W
Battery Life	Dual Li-polymer High Capacity Batteries, up to 5 Hours Battery Life	Li-ion Battery 8-hour battery life based on test configurations	Li-ion Battery 5-hour battery life based on test configurations
Master Battery	External Battery: 7.4V 1530mAh	Hot-swappable battery: 7.4V, 1530mAh, 11.3W	Hot-swappable battery: 7.4V, 1530mAh, 11.3W
Slave Battery	Removable Battery: 7.4V 1530mAh	7.4V, 1530mAh, 11.3W	7.4V, 1530mAh, 11.3W
Display			
LCD	7" TFT-LCD / 16:10, with LED backlight	7" TFT-LCD Display	7" TFT-LCD Display
Resolution	1280 x 800 pixel	1280 x 800	1280 x 800
Max. Colors	16.7M	N/A	N/A
Dot Size	0.117 x 0.117(H)	0.03925(H) X 0.11775(V) mm	0.03925(H) X 0.11775(V) mm
Brightness	400 nits; Sunlight Readable (Optional)**	700 / 300 nits	700 / 300 nits
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)	Horizontal: 178°, Vertical: 178° (Typical)	Horizontal: 178°, Vertical: 178° (Typical)
Touch Screen			
Touchscreen Type	Projected capacitive multi-touch screen (PCT)	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points / 300 nits with 5 points)
Light Transmission	Min 87% (ASTM D1003; Wavelength = 550nm)	Min. 85%	Min. 85%
Note	* LTE: the module adder need customization depends on different countries, please contact Sales Rep. ** Sunlight readable by optional Anti-Reflective bonding and optional anti-glare film.		

Selection Guide



Model	RTC-1010	RTC-1010M	RTC-1200
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	Intel® Celeron™ N3350 1.1GHz Dual core up to 2.4GHz Intel® Pentium™ N4200 1.1GHz Quad core up to 2.5GHz	Intel® Core™ i7100U / 7300U Dual Core up to 3.9GHz Intel® Celeron® 3965U Dual Core 2.2GHz Processor
Operating System	Windows® 10 IOT Enterprise SAC	Windows® 10 IOT Enterprise SAC	Windows® 10 IoT Enterprise 64bit (Default) Windows® 7 for Skylake (Optional)
Memory	Onboard DDR3L 4GB (Default)	Onboard DDR3L 4GB (Default)	DDR3L SODIMM Socket x 1, up to 8GB
Storage	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)	eMMC 64GB (mSATA III up to 512GB via inside mini-card slot, Optional)	M.2 (NGFF) SSD, 64GB (Default)
Display	10.1" WXGA (1280x800) 800-nit / 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen	10.1" WXGA (1280x800) 300-nit TFT LCD With Projected Capacitive Multi-Touch Screen	11.6" FHD (1920x1080) 300-nit / 1000-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)	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)	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 1 (Type A), USB 3.2 Gen 1 x 1 (Type C) (Optional), USB 2.0 x 2 (Type A), 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 v4.2 (EDR+BLE)	Wi-Fi 802.11 b/g/n Bluetooth v4.2 (EDR + BLE)	Wi-Fi 802.11 b/g/n, Bluetooth v4.1
Navigation	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or BeiDou (Optional)	Up to 3 GNSS, GPS + Galileo (Default), GLONASS or BeiDou (Optional)	GPS, GLONASS
WWAN (optional)	LTE via mini-card slot (Optional)	LTE via mini-card slot (Optional)	LTE via mini-card slot (Optional)
Camera	2MP front camera, 8MP rear camera with flash	2MP front camera, 8MP rear camera with flash	2 MP front camera, 5 MP auto-focus rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor	G-sensor, E-compass, Gyro-sensor, Light-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	Inside mini-card slot x 1, Mini-card slot x 1, Docking connector: USB 2.0 x 1	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)	2D Barcode scanner, OPTICON MDI-4100-USB (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	ISO 15693 (R/W) ISO 18092 (R/W) ISO 14443-A (R/W) ISO 14443-B (Only Read UID) Depend on card type	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	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	F0 or Windows (Windows Start Key), F1(Ctrl+Alt+Del & Barcode Scanner Trigger), F2 (Touch Mode Switch), F3 (PrtSc/printscreen), Volume Up, Volume Down
Mechanical			
Color	Black & Dark Gray	Black & Dark Gray	Gray & Black
Dimensions (W x H x D)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm x 20.4 mm)	10.71" x 7.48" x 0.80" (272.0 mm x 190.0 mm x 20.4 mm)	12.36" x 7.87" x 0.96" (310.4mm x 200mm x 24.5mm)
Gross Weight	2.2 lb (1.0 Kg) based on configurations	2.1 lb (0.95 Kg) based on configurations	3.3 lbs (1.5 kg)
Environmental			
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)	-4°F ~ 122°F (-20°C ~ 50°C)	-4°F ~ 140°F (-20°C ~ 60°C)
Storage Temperature	-67°F ~ 158°F (-55°C ~ 70°C)	-67°F ~ 158°F (-55°C ~ 70°C)	-67°F ~ 158°F (-55°C ~ 70°C)
Humidity	0% ~ 90% relative humidity, non-condensing	0% ~ 90% relative humidity, non-condensing	50°C; 5% ~ 90% R/H; 120 hours, non-condensing
Environmental Sealing	IP65	IP54	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)	—	MIL-STD-810G Method 514.6 Procedure I, Cat. 24, Fig. 514.6E-1 & E-2
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	Drop height: 76 cm Condition: Based on 2" plywood over concrete	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
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV	Air charge: +/- 8KV, Contact charge: +/- 4KV	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL60950-1, CE, FCC	UL60950-1, CE, FCC	UL: UL60950-1, CE/LVD: EN60950-1, CE, FCC
Power Supply			
AC/DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3A/ 36W	AC 100~240V, 50~60Hz; DC 19V/3.42A (65W)
Battery Life	Li-ion Battery 8-hour battery life based on test configurations	Li-ion Battery 8-hour battery life based on test configurations	Dual Li-ion High Capacity Batteries, up to 10 Hours Battery Life
Master Battery	Hot-swappable battery: 14.4V, 2270mAh, 32.7W	Hot-swappable battery: 14.4V, 2270mAh, 32.7W	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Slave Battery	7.4V, 1530mAh, 11.3W	7.4V, 1530mAh, 11.3W	Hot-swappable battery: 14.4V, 2270mAh, 32.7W
Display			
LCD	10.1" TFT-LCD/ 16:10 with LED backlight	10.1" TFT-LCD/ 16:10 with LED backlight	11.6" TFT-LCD/ 16:9, with LED backlight
Resolution	1280 x 800	1280 x 800	1920 x 1080 pixel
Max. Colors	N/A	N/A	16.7M
Dot Size	0.1692 (H) x 0.1692 (V) mm	0.1692 (H) x 0.1692 (V) mm	0.117 x 0.117(H)
Brightness	300 nits (800 nits optional)	300 nits (800 nits optional)	1000 nits; 300 nits (Optional)
Viewing Angle	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)	Horizontal: 170° (Typ.), Vertical: 170° (Typ.)	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen			
Touchscreen Type	Projected capacitive multi-touch screen (PCT)	Projected capacitive multi-touch screen (PCT)	11.6" Projected Capacitive Multi-Touch Screen Gloves / Finger Switchable by F2
Light Transmission	Min 85%	Min 85%	Min 87% (ASTM D1003; Wavelength = 550nm)