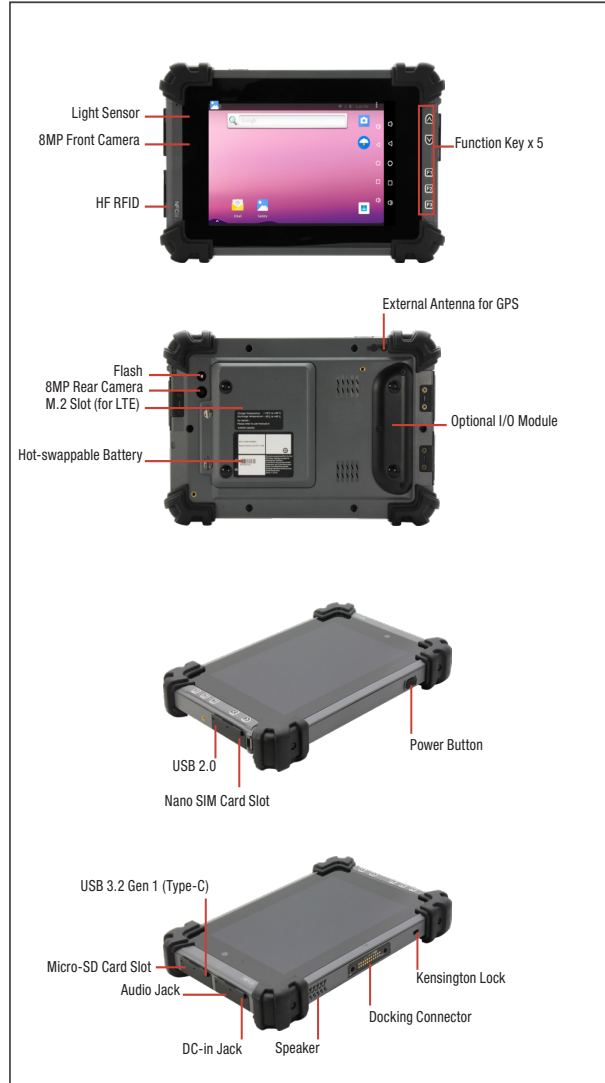


# RTC-710RK

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

Rugged Tablet Computers



## Specifications

| System Architecture |                                                                                                                                                                                                                             |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor           | Rockchip RK3399K Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)                                                                                                                                                    |
| Operating System    | Android 8.1<br>Android 11 (Optional, no NFC function)                                                                                                                                                                       |
| Memory              | Onboard LPDDR4 2GB (Default) / 4GB                                                                                                                                                                                          |
| Storage             | eMMC 16GB (Default) / 32GB / 64GB                                                                                                                                                                                           |
| Display             | 7" WXGA (1280x800) 300-nit / 700-nit TFT LCD<br>With Projected Capacitive Multi-Touch Screen                                                                                                                                |
| I/O Port            | SIM card slot x 1<br>USB 3.2 Gen 1 Type-C x 1<br>Audio jack x 1 (3.5mm)<br>DC-in jack x 1<br>Micro-SD card slot x 1<br>USB 2.0 Type-A x 1<br>UART Port x 1 (Via I/O Module)<br>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          | GPS + GLONASS (Default), BeiDou (Optional), External Antenna (Optional)                                                                                                                                                     |
| WWAN(optional)      | LTE via M.2 slot (Optional)<br>Hot-swappable Battery can not be used when LTE module is installed.                                                                                                                          |
| Camera              | 8MP front camera<br>8MP rear camera with flash                                                                                                                                                                              |
| Sensor              | G-sensor, E-compass, Gyro-sensor, Light-sensor                                                                                                                                                                              |

## Features

- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- NFC (HF RFID) Reader (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 122cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 8.1/ Android 11 (Optional)



| Expansion Slot               | M.2 slot x 1<br>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 (R/W),<br>Depend on card type   |
| Audio                        | Speaker x 1                                                                                      |
| Physical Key                 | F1 (Audio On/Off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume<br>Up, Volume Down     |
| Mechanical                   |                                                                                                  |
| Color                        | Dark Gray                                                                                        |
| Dimension (W x H x D)        | 8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9 mm)                                                  |
| Gross Weight                 | 1.54 lb (0.7 Kg) based on configurations                                                         |
| Environmental                |                                                                                                  |
| Operating Temperature        | -4°F ~ 140°F (-20°C ~ 60°C) for high-brightness version                                          |
| Storage Temperature          | -22°F ~ 158°F (-30°C ~ 70°C)                                                                     |
| Humidity                     | MIL-STD-810G Method 507.5                                                                        |
| Environmental Sealing        | IP65                                                                                             |
| Vibration                    | MIL-STD-810G Method 514.6                                                                        |
| Drop                         | MIL-STD-810G Method 516.6 Procedure IV<br>Height of Drop: 122 cm (48 inch; 4 ft)                 |
| Shock                        | MIL-STD-810G                                                                                     |
| ESD                          | Air charge: +/- 8KV, Contact charge: +/- 4KV                                                     |
| Certifications and Standards | UL62368-1, CE, FCC, IC                                                                           |
| Power Supply                 |                                                                                                  |
| AC / DC Adapter              | AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W                                              |
| Battery Life                 | Li-ion Battery 8-hour battery life based on test configurations                                  |
| Master Battery               | 7.2V, 4540mAh, 32.7W                                                                             |
| Slave Battery                | Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)                                           |
| Display                      |                                                                                                  |
| LCD                          | 7" TFT-LCD / 16:10, with LED backlight                                                           |
| Resolution                   | 1280 x 800                                                                                       |
| Maximum Color                | —                                                                                                |
| Dot Size                     | 0.03925(H) X 0.11775(V) mm                                                                       |
| Brightness                   | 700 / 300 nits                                                                                   |
| Viewing Angle                | Horizontal: 178° (Typ.), Vertical: 178° (Typ.)                                                   |
| Touch Screen                 |                                                                                                  |
| Touch Type                   | 7" Projected Capacitive Multi-Touch Screen<br>(700 nits with 10 points / 300 nits with 5 points) |
| Light Transmission           | Min. 85%                                                                                         |

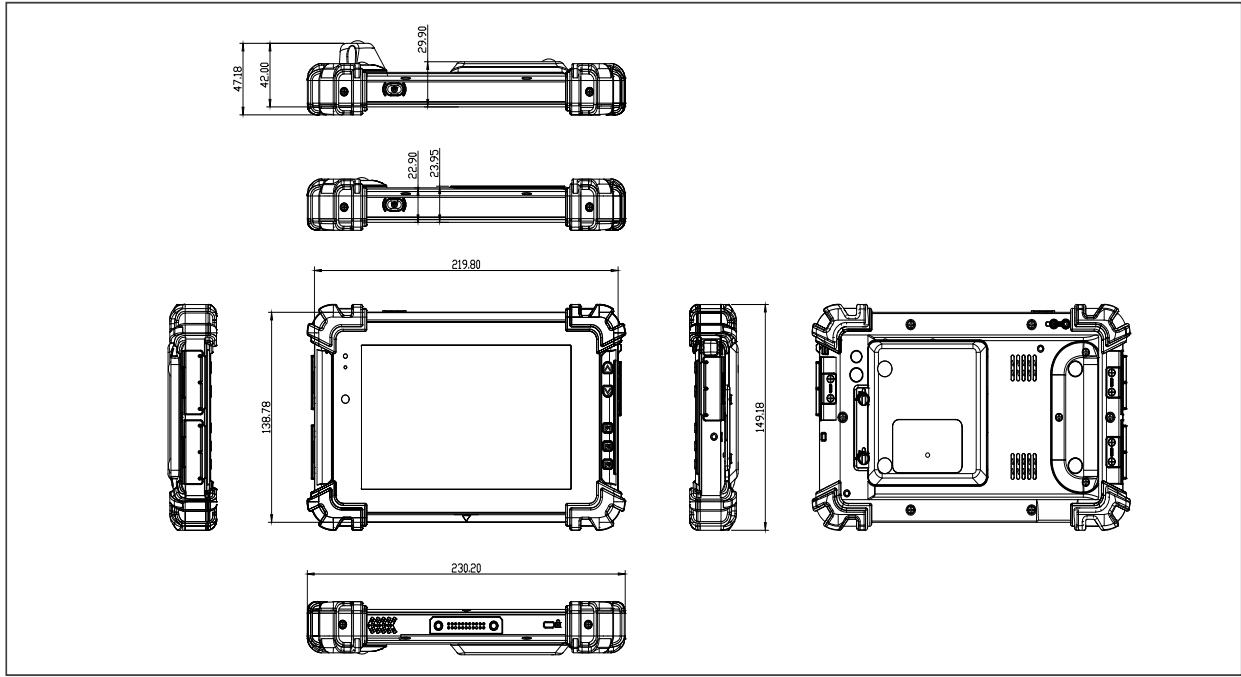
# RTC-710RK

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Rugged Tablet Computers

## Dimension

Unit: mm



## Packing List

- RTC-710RK
- 1255X00008

AC-To-DC Power Adaptor, 12V, 40W

\*Power cord must be purchased separately.

## Optional Accessories

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

## Ordering Information

| Part Number      | CPU     | OS          | LCD Display | Touch Screen  | System Memory | Storage   | Expansion I/O                                                                                                                                                                                                 | Sensor                                  | WiFi/Bluetooth       | Navigation    | LTE Bands (MHz) | Camera                           | Docking | 2D Barcode Scanner | HF RFID | Battery          | Power |
|------------------|---------|-------------|-------------|---------------|---------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|---------------|-----------------|----------------------------------|---------|--------------------|---------|------------------|-------|
| RTC-710RK-RH0001 | 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<br>Gyro-sensor<br>Light-sensor | 802.11 b/g/n + BT4.2 | —             | —               | Front: 8MP                       | —       | —                  | —       | 32.7W (internal) | DC12V |
| 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<br>Gyro-sensor<br>Light-sensor | 802.11 b/g/n + BT4.2 | GPS / GLONASS | —               | Front: 8MP<br>Rear: 8MP w/ Flash | Yes     | —                  | Yes     | 32.7W + 11.3W    | DC12V |
| 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<br>Gyro-sensor<br>Light-sensor | 802.11 b/g/n + BT4.2 | GPS / GLONASS | —               | Front: 8MP<br>Rear: 8MP w/ Flash | Yes     | —                  | Yes     | 32.7W + 11.3W    | DC12V |
| 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<br>Gyro-sensor<br>Light-sensor | 802.11 b/g/n + BT4.2 | GPS / GLONASS | —               | Front: 8MP<br>Rear: 8MP w/ Flash | Yes     | Yes                | Yes     | 32.7W + 11.3W    | DC12V |
| RTC-710RK-RH0005 | RK3399K | Android 8.1 | 7" 700 nits | PCT 10 points | LPDDR4 4GB    | 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<br>Gyro-sensor<br>Light-sensor | 802.11 b/g/n + BT4.2 | GPS / GLONASS | —               | Front: 8MP<br>Rear: 8MP w/ Flash | Yes     | —                  | Yes     | 32.7W + 11.3W    | DC12V |

Note: All specifications are subject to change without notice.

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## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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