



## Specifications

| System Architecture        |                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor                  | Rockchip RK3399K 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                 | GPS + GLONASS (Default), BeiDou (Optional)<br>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)<br>ISO 18092 (R/W)<br>ISO 14443-A (R/W)<br>ISO 14443-B (Only Read UID)<br>Depend on card type                                                                                                 |

## Features

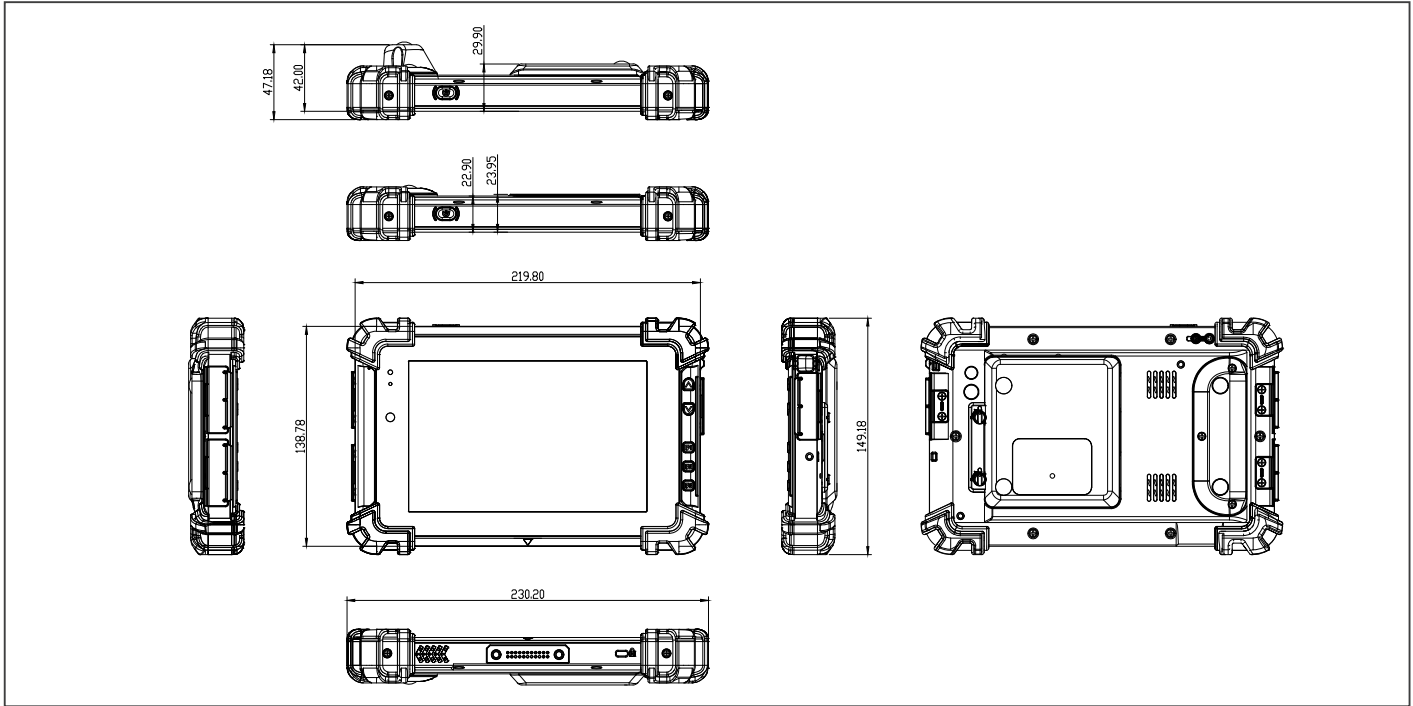
- 7" WXGA (1280 x 800) 700-nit / 300-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 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



|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| Physical Key                 | F1(Audio on/off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down         |
| <b>Mechanical</b>            |                                                                                                  |
| 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                                                        |
| <b>Environmental</b>         |                                                                                                  |
| Operating Temperature        | -20°C ~ 60°C (-4°F ~ 140°F) for high-brightness version                                          |
| Storage Temperature          | -30°C ~ 70°C (-22°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<br>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                                                                               |
| <b>Power Supply</b>          |                                                                                                  |
| 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)                                           |
| <b>Display</b>               |                                                                                                  |
| 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)                                                       |
| <b>Touch Screen</b>          |                                                                                                  |
| Touch Type                   | 7" Projected Capacitive Multi-Touch Screen<br>(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

- **RDS-0710-000**  
Docking Station
- **RDS-0710-001**  
Docking Station, W/ Stand
- **RTC-710-BAG-000**  
Carry Bag
- **964171RKB0**  
Hand Strap
- **RDS-0040-0000**  
4-Bay Battery Charger
- **9741600R04**  
Battery Pack, 7.4V, 1530mAh, 2pcs/Box
- **1259X00003**  
Car Adapter, Cigarette Plug
- **1702031802**  
Power Cord for USA
- **1702031803**  
Power Cord for Europe

## 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-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     | 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     | 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     | 32.7W + 11.3W    | DC12V |