

## 10.1" Android Rugged Tablet with MediaTek MT8781 Octa-core Processor

### Overview

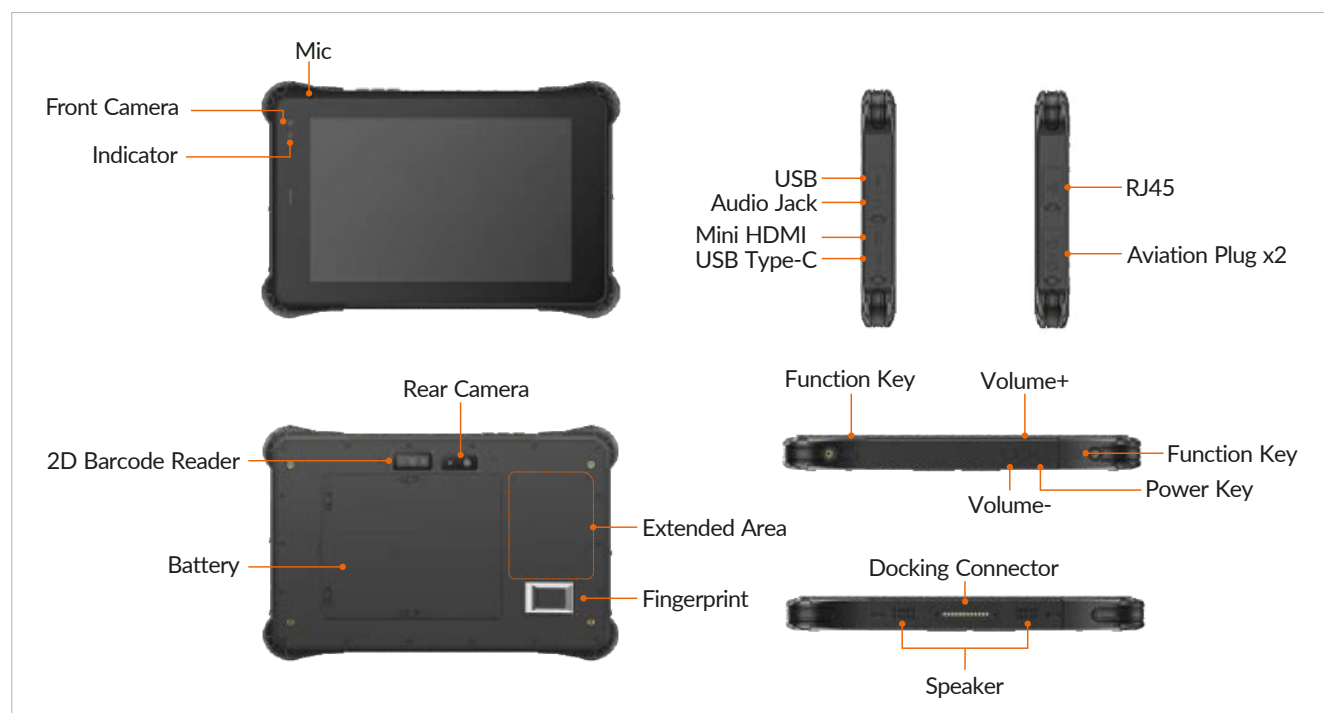
The RTC-M102 features an 10.1-inch touchscreen and a high-performance MediaTek MT8781 processor, delivering smooth and seamless operation with low power consumption. Running Android 16 and equipped with a wide range of features including NFC and optional 1D/2D barcode reader and RFID module, it helps field workers boost productivity and efficiency. Its 700-nit display ensures clear visibility even under direct sunlight. MIL-STD-810H certified and IP67 rated, the RTC-M102 is built for field mobility, public safety, energy inspection, and logistics and warehouse applications in extreme environments.

### Features

- MediaTek MT8781 Octa-core processor, Android 16 operating system
- 10.1" TFT LCD, 1280 × 800 resolution (optional 1920 x 1200)
- Supports NFC. With optional 1D/2D barcode reader, RFID module, and fingerprint reader
- Supports 4G, WLAN, BT, and GNSS
- Rich I/O interfaces including: RS-232, RJ45 Ethernet, USB
- Removable high-capacity 10,000 mAh battery
- IP67 and MIL-STD-810H certified



### I/O Interfaces

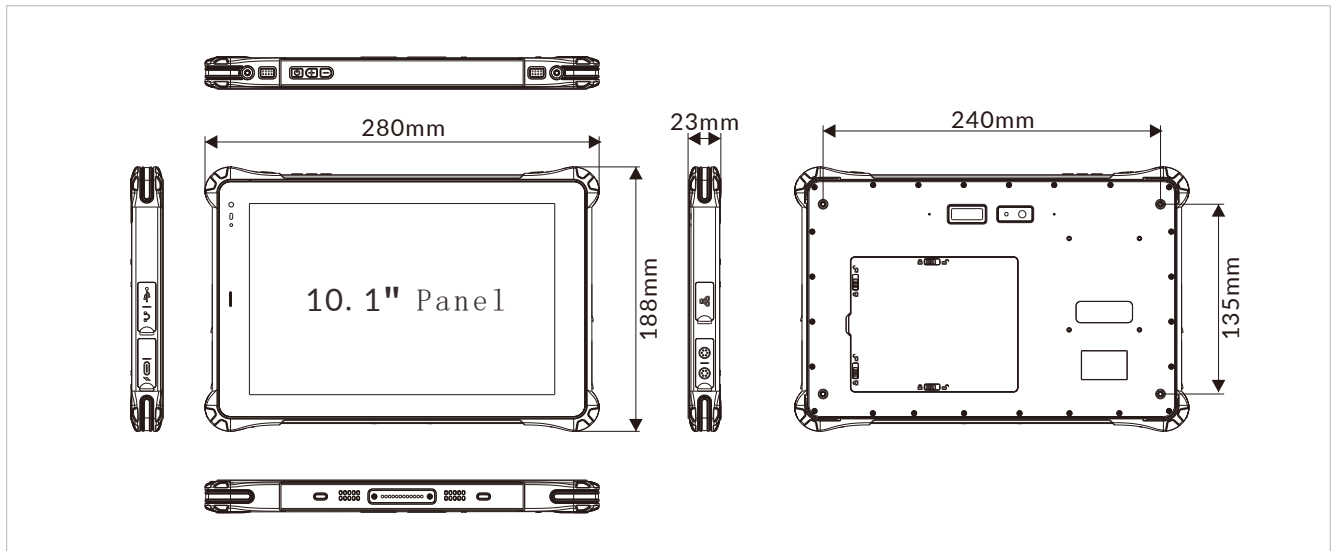


## Specifications

|                              |                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <b>Display</b>               |                                                                                                                           |
| Size                         | 10.1 inch                                                                                                                 |
| Touch Type                   | G+G Capacitive multi-touch screen, gorilla glass, hardness 7h                                                             |
| Resolution                   | 1280 x 800 (optional 1920 x 1200)                                                                                         |
| Luminance                    | 700 nits (1200 x 800); 500 nits (1920x1200)                                                                               |
| Contrast Ratio               | 1000: 1                                                                                                                   |
| View Angles                  | 85 (left), 85 (right), 85 (up), 85 (down)                                                                                 |
| Color                        | 16.7M                                                                                                                     |
| <b>System</b>                |                                                                                                                           |
| CPU                          | MediaTek MT8781, ARM Cortex-A76 Dual-core 2.2 Ghz, ARM Cortex-A55 Hexa-core 2.0GHz                                        |
| Memory                       | 8GB                                                                                                                       |
| Storage                      | 128GB                                                                                                                     |
| Graphics                     | ARM Mail-G57                                                                                                              |
| Camera                       | Front: 5MP fixed-focus camera<br>Rear: 13MP autofocus camera with flash                                                   |
| Sensor                       | Compass, Gyroscope, G-sensor, Light sensor                                                                                |
| <b>Keypad &amp; Keyboard</b> |                                                                                                                           |
| Button                       | 1x Power button, 1x Volume+, 1x Volume -, 2x Barcode scan keys                                                            |
| <b>I/O Ports</b>             |                                                                                                                           |
| USB                          | 1x USB 2.0 Type A<br>1x USB 2.0 Type C (supports power charging and data transfer)                                        |
| Ethernet                     | 1x RJ45 10/100M                                                                                                           |
| Display                      | 1x Mini HDMI                                                                                                              |
| Audio                        | 1x 3.5mm audio combo jack                                                                                                 |
| SIM Card Slot                | 1x Micro SIM card slot                                                                                                    |
| TF Card Slot                 | 1x TF card slot, up to 256GB                                                                                              |
| Aviation Plug (optional)     | 2x Aviation plug (choose two out of three from USB, RS232 or DC-in)                                                       |
| Docking Connector            | 1x 12-Pin                                                                                                                 |
| <b>RF Communication</b>      |                                                                                                                           |
| Wi-Fi                        | Wi-Fi 802.11 (a/b/g/n/ac), dual band (2.4G + 5.0G)                                                                        |
| Cellular                     | GSM: B2/B3/B5/B8<br>WCDMA: B1/B2/B5/B8<br>FDD: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B66<br>TDD: B34/B38/B39/B40/B41 |
| Bluetooth                    | BT5.2 (BLE) Class 1                                                                                                       |
| GNSS                         | GPS, GLONASS, BeiDou                                                                                                      |
| <b>Data Collection</b>       |                                                                                                                           |
| NFC                          | 13.56MHz, supports ISO/IEC 14443A/14443B/15693/18092/mifare                                                               |
| RFID (Optional)              | UHF RFID, supports PR9200                                                                                                 |
| Barcode Reader (Optional)    | 1D, 2D barcode reader                                                                                                     |
| Fingerprint (Optional)       | FBI/ISO/GA certification                                                                                                  |
| <b>Audio</b>                 |                                                                                                                           |
| Speaker                      | 8Ω/1W, dual stereo speakers                                                                                               |
| MIC                          | Built-in microphone                                                                                                       |
| <b>Power</b>                 |                                                                                                                           |
| Power Adapter                | Input AC:100-240V 50/60HZ 0.5A MAX. Output DC: 5V 3A                                                                      |
| Battery                      | Removable lithium-ion polymer battery, 3.8V 10000mAh                                                                      |
| Battery Life                 | 8 hours                                                                                                                   |
| <b>Operating System</b>      |                                                                                                                           |
| Android                      | Android 16                                                                                                                |

| Mechanical             |                                                          |
|------------------------|----------------------------------------------------------|
| Dimensions (W x D x H) | 280 x 188 x 23mm (11.02 x 7.40 x 0.91 inches)            |
| Weight (N.W.)          | 1150g (2.54 lbs)                                         |
| Environment            |                                                          |
| Operating Temperature  | -10 °C to 50 °C (14 to 122°F)                            |
| Storage Temperature    | -20 °C to 60 °C (-4 to 140°F)                            |
| Relative Humidity      | 95% @ 40°C (104°F), non-condensing                       |
| Vibration              | MIL-STD-810H: 2022 method 514.8 procedure I              |
| Drop                   | MIL-STD-810H: 2022 method 516.8 procedure IV, 4ft        |
| IP Rating              | IP67                                                     |
| Certification          |                                                          |
| EMC                    | CE, FCC                                                  |
| Packing List           |                                                          |
| Packing                | 1x RTC-M102, 1x battery, 1x hand strap, 1x power adapter |

## Dimensions



## Optional Accessories

| Part No. | Description    |
|----------|----------------|
| SS18     | Shoulder strap |
| HS8      | Hand strap     |