Built-in UHF

RFID

RTA6

MOBILE COMPUTER

Android	4G	WiFi	Bluetooth	1D Barcode	2D Barcode	NFC

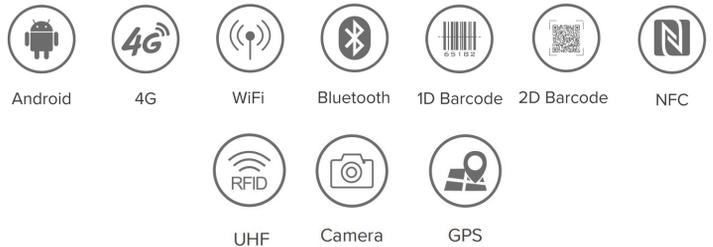|		
UHF	Camera	GPS

RTA6 is a highly expandable large-screen rugged handheld computer. Equipped with Qualcomm octa-core processor and Android 11 OS, it comes with a 5.5-inch HD display, barcode scanning, and NFC functions. The device supports quick charge and UHF sled for high extensibility. The premium Android 11 version offers built-in UHF functions and with Wi-Fi 6-ready platform for higher data throughput and security that fully satisfy the needs in logistics, warehouse, manufacturing, retail, etc. applications.

Specification

Physical Characteristics

Dimensions	160.0 x 76.0 x 15.5 / 17.0mm / 6.3 x 2.99 x 0.61 / 0.67in.
Weight	287g / 10.12oz.(device with battery) 297g / 10.47oz.(device with battery, Fingerprint / Volume Measurement / Built-in UHF)
Keypad	1 power key, 2 scan keys, 2 volume keys
Battery	Removable main battery (normal version:4420 mAh ; Android 11 with fingerprint / built-in UHF / volume measurement version: 5200mAh) 5200mAh optional pistol battery, support QC3.0 and RTC Standby: up to 490 hours (only main battery ; WiFi: up to 470h; 4G: up to 440h) Continuous use: over 12 hours (depending on user environment) Charging time: 2.5 hours (charge device by standard adaptor and USB cable)
Display	5.5-inch high definition full display (18:9), IPS IGZO 1440 x 720
Touch Panel	Multi-touch panel, gloves and wet hands supported
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
Notification	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Card slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB Type-C, USB 3.1, OTG, extended thimble;

Performance

CPU	Qualcomm Snapdragon™ 662 Octa-core, 2.0 GHz
RAM+ROM	3GB + 32GB / 4GB + 64GB
Expansion	Supports up to 128GB Micro SD card

Developing Environment

Operating System	Android 11; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-4°F to 122°F / -20 °C to +50 °C
Storage Temp.	-40°F to 158°F / -40 °C to +70 °C
Humidity	5% RH - 95% RH non condensing
Drop Specification	Multiple 1.8m / 5.91ft. drops (at least 20 times) to the concrete across the operating temperature range Multiple 2.4m / 7.87ft. drops (at least 20 times) to the concrete after installed rubber boots
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	± 15KV air discharge, ± 8KV conductive discharge

Communication

Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
WLAN	Fast roaming: PMKID caching, 802.11r, OKC Operating Channels: 2.4G(channel 1~13), 5G(channel36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132, 136,140,144,149,153,157,161,165), Depends on local regulations Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS,PEAP-GTC,etc.
WWAN (Europe, Asia)	2G: 850/900/1800/1900 MHz 3G: CDMA EVDO: BC0 WCDMA: 850/900/1900/2100MHz TD-SCDMA: A/F(B34/B39) 4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
WWAN(America)	2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38

Data Collection

Camera

Rear Camera	Rear 13MP Autofocus with flash

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2~4cm

Barcode Scanning (Optional)

2D Scanner	Zebra: SE4710/SE2100; Honeywell: N6603; E3200; IA166S; CM60
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (KIX),etc.

UHF

*For detailed specification, please check UHF part

Optional accessories(See details in Accessory Guide)

Separate handle with one button; Handle + battery (handle battery 5200mAh, one button);

UHF back clip + handle (5200mAh, one button); Wrist Strap; Rubber Bumper; Charging Cradle

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