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Mobile Computer
 UHF

This device is an Android rugged mobile computer. It can be configured with internal UHF module with 1dBi circularly polarized antenna. With its powerful quadcore processor and wireless connections such as 4G, Bluetooth and Wi-Fi, UHF RFID, 1D/2D barcoding, iris recognition and NFC, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity. It with abundant functions can best satisfy your different industrial needs.

Most Powerful Application Performance
This device prides itself on Android 6.0 OS, 1.3GHz quad-core processor, and 2GB of RAM, 16GB of ROM, plus 32GB SD card expansion.

Superior UHF RFID Capability
It provides new levels of UHF RFID reading/writing performance. It is configured with circularly polarized antenna to enable accurate and swift tag reading.

Multiple Data Capture Options
Besides the superior UHF RFID, it can also be integrated with class-leading 1D/2D barcode scan head, high-precision iris recognition module, NFC and camera. It delivers unprecedented efficiency and accuracy in collecting data.

4G LTE — Faster Connectivity
With fast and stable 4G, Wi-Fi, Bluetooth connectivity, it will never interrupt your work both indoors and outdoors.

Rugged and Compact
With IP65 sealing, workers can still expect reliable performance when they drop it to the concrete carelessly, use it in dusty areas, or even get it wet.

Large Screen & Powerful Battery
It adopts 5.2" high-resolution IPS screen. It also supports operation with wet hands or gloves. 5000mAh battery allows a full day's non-stop work.

RFID	1D Barcode	2D Barcode	IRIS	NFC	4G	WiFi	Bluetooth	GPS	Camera

Physical Characteristics

Dimensions	164.2*78.8*17.5mm/6.46*3.10*0.69in
Weight	350-450g/12.3-15.9oz (dependent)
Display	5.2" IPS FHD 1920x1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 5000mAh
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB 2.0 Type-C, OTG
Audio	speaker, 2 microphones
Keypad	4 front buttons, 1 side button, 2 scan keys, 1 multifunctional key
Sensors	Gravity sensor, Light Sensor, Proximity Sensor, Vibration Motor

Performance

CPU	Cortex-A53 Quad-core 1.3GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 32 GB Micro SD card

Developing Environment

Operating System	Android 6.0
SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	14°F to 122°F / -10°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/5.9ft drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
Sealing	IP65
ESD	±8KV air discharge, ±4KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN(Europe)	**2G:** 850/900/1800/1900MHz
	3G: 850/900/1900/2100MHz
	4G: B1, B3, B5, B7, B8, B20, B40
WWAN(America)	**2G:** 850/900/1800/1900MHz
	3G: 850/900/1700/1900MHz
	4G: B2, B4, B7, B12, B17
WWAN (China)	**2G:** 900/1800MHz
	3G: 900/1900/2000/2100MHz
	4G: B1, B3, B5, B38, B39, B40, B41
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth 4.0, BLE
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna

Data Collection

UHF RFID

Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (1dBi)
Power	0.4W (26dBm, +16dBm to +26dBm adjustable)
R/W range	1m

* Ranges and rates depend on tags and environment

Camera

Camera	13MP autofocus camera with flash

Barcode Scanning (optional)

1D Linear Scanner	Honeywell N4313
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 Imager Scanner	Zebra SE4710/Zebra SE4750MR/Honeywell N6603, 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.

Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/10000000

* Front Iris is alternative to front camera.

NFC (optional)

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