



5G Mobile Computer



5G



Android 14



Wi-Fi 6E



Bluetooth 5.2



UHF



1D Barcode



2D Barcode



NFC



Camera



GNSS

This device is our latest 5G high-performance mobile computer, designed with cutting-edge technology. Powered by a robust processing chip, a 6-inch HD display, and exceptional 5G and Wi-Fi 6E connectivity, it provides an enhanced mobile office solution for your frontline workers. Featuring dual UHF configuration options—either built-in or pistol-grip—the device incorporates our self-developed UHF module based on Impinj E Series chips, supporting Impinj Gen2X and ensuring superior RFID performance. With versatile data collection capabilities, including barcode scanning, RFID reading, and NFC, the device is ideal for a wide range of applications, from retail stores and warehouse sorting to power inspections, asset management, and more.



Specification

Physical Characteristics	
Dimensions	161.0 x 77.8 x 15.5mm / 6.34 x 3.06 x 0.61 in.
Weight	297g / 10.48oz. (device with battery)
Keypad	Power key, 2 scan keys, volume (+/-) keys, 1 multifunctional key
Battery	5000mAh removable main battery, support QC3.0 and RTC; Support Battery Management System; Hot swap battery backup
Display	6-inch high definition display (18:9), 1440 x 720
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Sensor	G_sensor, proximity sensor, light sensor, geomagnetic sensor, gyroscope
Notification	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; 1 receiver
Card slot	1 for SIM card, 1 for SIM or TF card, Supports eSIM (optional)
Interfaces	USB Type-C, USB 3.1, OTG

Performance	
CPU	Qualcomm Octa-core, 2.4GHz
RAM+ROM	UFS: 4GB + 64GB / 8GB + 256GB (optional)
Expansion	Supports up to 256GB TF card (Supports Extreme Micro SD Card 512GB)

Developing Environment	
Operating System	Android 14
SDK	Software Development Kit
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 1.5m / 4.92ft. drops to the concrete across the operating temperature range MIL-STD-810H (SGS Test): Multiple 1.5 m/4.92 ft. drops to concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
Sealing	IP67 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge

Communication	
WLAN	Support 802.11 a/b/g/n/ac/ax-6E, 2.4G/5G dual-band, IPV4, IPV6; 2*2 MIMO antennas
	Fast roaming: PMKID caching, 802.11r, OKC
	Operating Channels: 2.4G (channel 1~13), 5G (channel 36, 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, WPA3-Enterprise, WPA3-Enhanced Open, WPA3 Easy Connect, WPA3-Personal, etc.
WWAN (America)	2G: GSM/EDGE/GPRS(850/1900)
	3G: WCDMA(B2/B4/B5)
	4G: FDD-LTE B2/B4/B5/B7/B12/B13/B25/B26/B28; TDD-LTE B38/B41;
	5G: N2/N3/N5/N7/N12/N13/N25/N26/N28/N38/N41/N77/N78
WWAN (Europe, Asia)	2G: GSM / EDGE / GPRS (850/900/1800)
	3G: WCDMA (B1/B5/B8)
	4G: FDD-LTE (B1/B3/B5/B7/B8/B20/B28A/B28B) TDD-LTE (B34/B38/B39/B40/B41)
	5G: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N77/N78/N79
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.2
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

Data Collection	
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Camera	
Rear Camera	16MP Autofocus with flash
Front Camera	5MP

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

UHF RFID (Optional)	
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*For detailed specification, please check MC51 UHF datasheet

Barcode Scanning (Optional)	
2D Scanner	Zebra: SE4710; SE55; CM60
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.

2D Symbolologies	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.
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Optional Accessories	
USB Cable, Adapter, Charging Cradle, Rugged Rubber Boot, etc.	
*See details in accessory guide	