



MC55 Mobile Computer



Android 14



5G



WiFi



Bluetooth



1D Barcode



2D Barcode



NFC



Camera



GPS

This is our newly launched 5G high-performance mobile computer. The top-of-the-class configuration comprises advanced Android 14, Qualcomm Snapdragon™ processor, and optional ultra-large memory. It integrates barcode scanning, NFC, dual camera, and multiple wireless data connections, as well as 6-inch HD screen, high-capacity removable battery and IP67 sealing. It can bring a new level of cost efficiency to a broad range of industries including retail, logistics, and warehousing.



Specification

Physical Characteristics	
Dimensions	161.0 x 77.8 x 15.5mm / 6.34 x 3.06 x 0.61in.
Weight	287g / 10.01oz. (device with battery)
Keypad	Power key, 2 scan keys, volume (+/-) keys
Battery	5000mAh removable main battery, support QC3.0 and hot-swap
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
Interfaces	USB Type-C, USB 3.1, OTG

Performance	
CPU	Qualcomm Snapdragon™ 4490 Octa-core, 2.4GHz
RAM+ROM	Standard 4GB+64GB, Optional 6GB+128GB and 8GB+256GB
Expansion	Supports up to 256GB TF card (Support SDXC512G)

Developing Environment	
Operating System	Android 14, Upgradable to Android 16 or later
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 (at least 26 times) to the 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	±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	802.11 a/b/g/n/ac/ax WIFI 6E, IPV4, IPV6, 2.4G/5G/6G triple-band; 2x2 MIMO antenna
	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
WWAN	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.
	4G: B1/B3/B7/B8
	5G: N1/N3/N78

Data Collection	
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	2-4cm

Barcode Scanning (Optional)	
2D Scanner	OPTICON: MSI-5200
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.

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