

CHAINWAY®



MC50

Mobile Computer



Chainway MC50 is our newly launched 5G high-performance mobile computer. The top-of-the-class configuration comprises advanced Android 12/14, high-performance octa-core 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 0.61 in.
Weight	280g-288g / 9.88oz-10.16oz. (device with battery)
Keypad	Power key, 2 scan keys, volume (+/-) keys, 1 multifunctional key
Battery	5000mAh removable main battery, support QC3.0 and RTC
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	Octa-core, 2.0GHz
RAM+ROM	4GB + 64GB / 6GB + 128GB (optional) / 8GB + 128GB (optional)
Expansion	Supports up to 256GB TF card
Developing Environment	
Operating System	Android 12/14; GMS&AER
SDK	Chainway 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 20 times) to the concrete across the operating temperature range MIL-STD-810H (SGS Test): Multiple 1.5m drops (at least 20 times) to the plate 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	
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
WLAN	Support 802.11 a/b/g/n/ac/ax-ready, 2.4G/5G dual-band, IPV4, IPV6, 5G PA; 2x2 MU-MIMO
	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	2G: 850/900/1800/1900 MHz
	3G: 850/900/1900/2100MHz
	4G: B1/B2/B3/B5/B7/B8/B20/B28A/B28B/B34/B38/B39/B40/B41
	5G: N1/N3/N8/N28/N41/N78/N79
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	2-4 cm
Barcode Scanning (Optional)	
2D Scanner	Zebra: SE4710/SE55/SE4750; 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.
Optional Accessories	
USB Cable, Adapter, Charging Cradle, Rugged Rubber Boot, etc.	
*See details in accessory guide	

Notice: Product specifications are subject to change without prior notice. / Model: MC50 / Update Date: 2025-06-26

CHAINWAY®

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