



Android 12



5G



Wi-Fi



Bluetooth



1D Barcode



2D Barcode



NFC



Camera



GPS

Chainway MC50 is our newly launched 5G high-performance mobile computer. The top-of-the-class configuration comprises advanced Android 12, 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	161.0x 77.8x 15.5mm /6.34 x 3.06 x 0.61in.
Weight	280g-288g /9.88oz-10.16oz.(device with battery)
Keypad	Power key, 2 scan keys, volume (+/-)keys, 1multifunctional key
Battery	5000mAh removable main battery, support QC3.0 and RTC
Display	6-inch high definition display (18:9),1440x 720
Touch Panel	Corning Gorilla Glass, multi-touchpanel, gloves and wet hands supported
Sensor	G_sensor, proximitysensor, light sensor, geomagnetic sensor, gyroscope
Notification	Sound, LED indicator,vibrator
Audio	2 microphones, 1for noise cancellation; 1speaker; 1receiver
Card slot	1for SIM card, 1for SIM or TF card
Interfaces	USB Type-C,USB 3.1,OTG
Performance	
CPU	Octa-core, 2.0GHz
RAM+ROM	4GB +64GB /6GB +128GB
Expansion	Supports up to 256GB TF card
Developing Environment	
Operating System	Android 12;GMS&AER; Committed support for a future upgrade to Android 14pending feasibility
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 1.5mdrops (at least 20 times) to theplate across the operatingtemperature range
Tumble Specification	1000 x 0.5m /1.64ft. falls at room temperature
Sealing	IP67 per IEC sealing specifications
ESD	±15KVair discharge, ±8KV conductive discharge

Communication	
Vo-LTE	Support Vo-LTEHD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internalantenna
WLAN	Support 802.11a/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: 850/900/1800/1900MHz
	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	M1card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm

Barcode Scanning (Optional)

2D Scanner	Zebra: SE4710; 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, AustralianPostal, Japan Postal, Dutch Postal (KIX),etc.

Optional Accessories

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

