



# MC50

## Mobile Computer

-  Android 12/14
-  5G
-  Wi-Fi
-  Bluetooth
-  1D Barcode
-  2D Barcode
-  NFC
-  Camera
-  GNSS

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

<b>Dimensions</b>	161.0 x 77.8 x 15.5mm / 6.34 x 3.06 x 0.61 in.
<b>Weight</b>	280g-288g / 9.88oz-10.16oz. (device with battery)
<b>Keypad</b>	Power key, 2 scan keys, volume (+/-) keys, 1 multifunctional key
<b>Battery</b>	5000mAh removable main battery, support QC3.0 and RTC
<b>Display</b>	6-inch high definition display (18:9), 1440 x 720
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	G_sensor, proximity sensor, light sensor, geomagnetic sensor, gyroscope
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 microphones, 1 for noise cancellation; 1 speaker; 1 receiver
<b>Card slot</b>	1 for SIM card, 1 for SIM or TF card
<b>Interfaces</b>	USB Type-C, USB 3.1, OTG

## Performance

<b>CPU</b>	Octa-core, 2.0GHz
<b>RAM+ROM</b>	4GB + 64GB / 6GB + 128GB (optional) / 8GB + 128GB (optional)
<b>Expansion</b>	Supports up to 256GB TF card

## Developing Environment

<b>Operating System</b>	Android 12/14; GMS&AER
<b>SDK</b>	Chainway Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20°C to +50°C
<b>Storage Temp.</b>	-40°F to 158°F / -40°C to +70°C
<b>Humidity</b>	5% RH - 95% RH non condensing
<b>Drop Specification</b>	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
<b>Tumble Specification</b>	1000 x 0.5m / 1.64ft. falls at room temperature
<b>Sealing</b>	IP67 per IEC sealing specifications
<b>ESD</b>	±15 KV air discharge, ±8 KV conductive discharge

## Communication

<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
<b>Bluetooth</b>	Bluetooth 5.1
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
<b>WLAN</b>	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
<b>WWAN</b>	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.
	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

<b>Rear Camera</b>	16MP Autofocus with flash
<b>Front Camera</b>	5MP

### NFC

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

## Barcode Scanning (Optional)

<b>2D Scanner</b>	Zebra: SE4710/SE55/SE4750; CM60;
<b>1D Symbolologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbolologies</b>	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**<sup>®</sup>

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