



# MC50

## Mobile Computer



Android 12



5G



WiFi



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, 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

<b>Dimensions</b>	161.0 x 77.8 x 15.5mm / 6.34 x 3.06 x 0.61 in.
<b>Weight</b>	287g / 10.01oz. (device with battery)
<b>Keypad</b>	Power key, 2 scan keys, volume (+/-) keys
<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>	Qualcomm Snapdragon™ 480 Octa-core, 2.0GHz
<b>RAM+ROM</b>	4GB + 64GB / 6GB + 128GB
<b>Expansion</b>	Supports up to 256GB TF card

## Developing Environment

<b>Operating System</b>	Android 12;
<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
<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;
	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.
<b>WWAN</b>	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; 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: 2023-11-27

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