



# MC21

## Mobile Computer



Android



4G



WiFi



Bluetooth



1D Barcode



2D Barcode



NFC



Camera



GPS

Chainway MC21 is a lightweight and portable mobile computer with keyboard. With Android 12, high-performance processor, 3.5-inch touchscreen, multi-function keyboard, and 5000mAh removable battery, the excellent configuration delivers highly efficient operation. It supports barcode scanning, NFC, 13MP camera, multiple wireless connections, and features high protection rating. The mobile computer is thus widely applicable in various fields including warehousing, logistics, retail, and asset management.



# Specification

## Physical Characteristics

<b>Dimensions</b>	186.6 x 66.7 x 24.3mm / 7.35 x 2.63 x 0.96in
<b>Weight</b>	287g / 10.05oz (Host with Battery)
<b>Keypad</b>	Left and Right Scan Keys + Main Keyboard
<b>Battery</b>	5000mAh (Host with Removable Battery), support quick charge
<b>Displayer</b>	3.5-inch, 480 x 800 resolution
<b>Touch Panel</b>	Multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	Gravity sensor, proximity sensor, light sensor
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 Microphones: 1 for noise reduction on the back and 1 speaker; Receiver
<b>Card slot</b>	1 slot for Micro SIM card, 1 slot for Nano SIM or TF card
<b>Interfaces</b>	USB 2.0 Type-C, OTG, supports Type-C headphones

## Performance

<b>CPU</b>	Quad-core, 2.0GHz
<b>RAM+ROM</b>	3GB + 32GB
<b>Expansion</b>	Supports up to 128 GB Micro SD (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 to 95%RH (non condensing)
<b>Drop Specification</b>	Multiple 1.5m / 4.9ft. drops (at least 28 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m / 1.64ft. falls at room temperature, meets IEC rolling specification
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	± 15KV air discharge, ± 8KV conductive discharge

## Communication

<b>WLAN</b>	Support 802.11 a/b/g/n/ac, 2.4G / 5G dual-band
<b>WWAN</b>	2G: GSM: B2/B3/B5/B8
	3G: WCDMA: (B1/B2/B4/B5/B8) TD-SCDMA (B34 / B39)
	4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B38/B39/ B40/B41
<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
<b>Bluetooth</b>	Bluetooth 5.0
<b>GNSS</b>	Integrate GPS, Beidou, GLONASS and Galileo, Support AGPS

## Data Collection

### Camera

<b>Rear Camera</b>	Rear 13 MP Autofocus with flash
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### NFC (optional)

<b>Frequency</b>	13.56MHz
<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 - 4cm

### Barcode Scanning (optional)

<b>2D Scanner</b>	Zebra: SE4710; CM60
<b>1D Symbolgies</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 Symbolgies</b>	PDF417, Micro PDF417, 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(See details in Accessory Guide)

USB Cable; Adapter; Charging Cradle, etc.

Notice: Product specifications are subject to change without prior notice. / Model: MC21 / Update Date: 2023-02-10

**CHAINWAY**<sup>®</sup>

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