MC21

Mobile Computer

Android	4G	Wi-Fi	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

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

Performance

CPU	Quad-core, 2.0GHz
RAM+ROM	3GB + 32GB
Expansion	Supports up to 256GB Micro SD (TF) card

Developing Environment

Operating System	Android 12; GMS
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 to 95%RH (non condensing)
Drop Specification	Multiple 1.5m / 4.9ft. drops to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature, meets IEC rolling specification
Sealing	IP65 per IEC sealing specifications
ESD	± 15KV air discharge, ± 8KV conductive discharge

Communication

WLAN	802.11d/e/h/i/j/k/r/v/w with companion D-die, Dual-band(2.4GHz and 5GHz) single stream 802.11 a/b/g/n/ac RF, 20/40/80MHz bandwidth, 5G PA
WWAN	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
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.0
GNSS	Integrate GPS, Beidou, GLONASS and Galileo, Support AGPS

Data Collection

Camera

Rear Camera	Rear 13 MP Autofocus with flash

NFC

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

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, 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.