



# C90

## Mobile Computer

- Android 10
- 4G
- WiFi
- Bluetooth
- 1D Barcode
- 2D Barcode
- NFC
- GMS
- Camera
- GNSS
- AI Engine

Chainway C90 is our newly-developed, lightweight and portable handheld terminal that exhibits extremely powerful performance. Built with Android 10 OS and high-performance octa-core processor, it features vigorous system configuration. With rich functionality features like outstanding barcode scanning, sturdy WiFi performance, NFC, front and rear cameras, it possesses the best price versus performance ratio. All these make C90 immensely perfect to be implemented in a wide spectrum of industries, including logistics, warehousing, retail, asset tracking etc., assisting customers to improve operation and management levels significantly.



# Specification

## Physical Characteristics

<b>Dimensions</b>	158.5 x 76.0 x 13.1 mm / 6.24 x 2.99 x 0.52 in.
<b>Weight</b>	230g / 8.11 oz. (device with battery)
<b>Keypad</b>	Power, 2 scan keys, volume +/-
<b>Battery</b>	Main battery: built-in 5000 mAh Standby: up to 490 hours (only main battery ; WiFi: up to 470h; 4G: up to 440h) Continuous use: over 12 hours (depending on user environment) Charging time: 2.5 hours (charge device by standard adaptor and USB cable)
<b>Sensor</b>	Light sensor, proximity sensor, gravity sensor
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 microphones, 1 for noise cancellation; 1 speaker; receiver
<b>Display</b>	5.7-inch (18:9) , IPS LTPS 1440 x 720
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Card slot</b>	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
<b>Interfaces</b>	USB Type-C, USB 2.0, OTG

## Performance

<b>CPU</b>	Cortex-A53 2.0 GHz Octa-core
<b>RAM+ROM</b>	3GB+32GB / 3GB+64GB / 4GB+64GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card

## Developing Environment

<b>Operating System</b>	Android 10, GMS, FOTA, Soti MobiControl, Android Enterprise Recommended, Zero-Touch, 90-day security updates, SafeUEM supported; Built-in support for a future upgrade through Android 11 / 12 which complies with GMS and Android Enterprise Recommended
<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 1.5 m / 4.92 ft. drops to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5 m / 1.64 ft. 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>WLAN</b>	Support IEEE802.11 a/b/g/n/ac/d/e/h/i/l/k/r/v/w, 2.4G/5G dual-band, IPV4, IPV6; Support 5G PA Fast roaming: PMKID caching, 802.11r, OKC Operating Channels: 2.4G(channel 1~13), 5G(channel 36,38,40,42,44,46,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165), 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, etc.
<b>WWAN(Europe/Asia)</b>	2G: GSM850/GSM900/DCS1800/PCS1900 3G: CDMA EVDO: BC0 WCDMA: B1/B2/B4/B5/B8 TD-SCDMA: A/F(B34/B39) 4G: B1/B2/B3/B4/B5/B7/B8/B20/B34/B38/B39/B40/B41
<b>WWAN(America)</b>	2G: GSM850/GSM900/DCS1800/PCS1900 3G: CDMA EVDO: BC0/BC1 WCDMA: B2/B4/B5/B8 4G: B2/B4/B5/B7/B8/B12/B17/B28A/B28B/B38
<b>Bluetooth</b>	V2.1+EDR, 3.0+HS and V4.1+HS, BT5.0
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

## Data Collection

### Camera

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

### 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>	Honeywell: N6603 / N6703
<b>1D Symbologies</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 Symbologies</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 (See details in Accessory Guide)

Charging Cradle; Lanyard etc.

Notice: Product specifications are subject to change without prior notice. / Model: C90 / Update Date: 2022-03-31

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