



# 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 10.0 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>Audio</b>	MIC, receiver, loudspeaker(1W), support voice call
<b>Vibrator</b>	Support
<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>Sensor</b>	Proximity sensor, light sensor, accelerometer sensor
<b>Indicator LED</b>	Power, charging, status indicator
<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, 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)
<b>WWAN(America)</b>	4G: B1/B2/B3/B4/B5/B7/B8/B20/B34/B38/B39/B40/B41
	2G: GSM850/GSM900/DCS1800/PCS1900
	3G: CDMA EVDO: BC0/BC1
	WCDMA: B2/B4/B5/B8
<b>Bluetooth</b>	4G: B2/B4/B5/B7/B8/B12/B17/B28A/B28B/B38
	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.

Notice: Product specifications are subject to change without prior notice. / Model: C90 / Update Date: 2021-11-22



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