

**CHAINWAY®**



# C90A

## Mobile Computer



Chainway C90A is our newly-developed, lightweight and portable handheld terminal that exhibits extremely powerful performance. Built with Android 14 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 C90A 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 |                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------|
| Dimensions               | 158.5 x 76.0 x 13.1 mm / 6.24 x 2.99 x 0.52 in.                                                                |
| Weight                   | 230g / 8.11 oz. (device with battery)                                                                          |
| Keypad                   | Power, 2 scan keys, volume +/-                                                                                 |
| Battery                  | 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)                                     |
| Sensor                   | Light sensor, proximity sensor, gravity sensor                                                                 |
| Notification             | Sound, LED indicator, vibrator                                                                                 |
| Audio                    | 2 microphones, 1 for noise cancellation; 1 speaker; receiver                                                   |
| Display                  | 5.7-inch (18:9) , IPS LTPS 1440 x 720                                                                          |
| Touch Panel              | Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported                                       |
| Card slot                | 1 slot for Nano SIM card, 1 slot for Nano SIM or TF card                                                       |
| Interfaces               | USB Type-C, USB 2.0, OTG                                                                                       |
| Performance              |                                                                                                                |
| CPU                      | Octa-core 2.0 GHz                                                                                              |
| RAM+ROM                  | 3GB+32GB / 3GB+64GB / 4GB+64GB                                                                                 |
| Expansion                | Supports up to 256GB Micro SD (TF) card                                                                        |
| Developing Environment   |                                                                                                                |
| Operating System         | Android 14, GMS, FOTA, Android Enterprise Recommended, Zero-Touch, 90-day security updates, SafeUEM supported; |
| 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 - 95% RH non condensing                                                                                  |
| Drop Specification       | Multiple 1.5 m / 4.92 ft. drops to the concrete across the operating temperature range                         |
| Tumble Specification     | 1000 x 0.5 m / 1.64 ft. falls at room temperature                                                              |
| Sealing                  | IP67 per IEC sealing specifications                                                                            |
| ESD                      | ±15 KV air discharge, ±8 KV conductive discharge                                                               |

| Communication                                         |                                                                                                                                                                                                             |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WLAN                                                  | 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.                                                                               |
| WWAN(Europe/Asia)                                     | 2G: GSM850/GSM900/DCS1800/PCS1900                                                                                                                                                                           |
|                                                       | 3G: CDMA EVDO: BC0                                                                                                                                                                                          |
|                                                       | WCDMA: B1/B2/B4/B5/B8                                                                                                                                                                                       |
|                                                       | TD-SCDMA: A/F(B34/B39)                                                                                                                                                                                      |
| WWAN(America)                                         | 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                                                                                                                                                                                          |
| Bluetooth                                             | 4G: B2/B4/B5/B7/B8/B12/B17/B28A/B28B/B38                                                                                                                                                                    |
|                                                       | V2.1+EDR, 3.0+HS and V4.1+HS, BT5.0                                                                                                                                                                         |
| GNSS                                                  | GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna                                                                                                                                                        |
| Data Collection                                       |                                                                                                                                                                                                             |
| Camera                                                |                                                                                                                                                                                                             |
| Front Camera                                          | 5MP                                                                                                                                                                                                         |
| Rear Camera                                           | 16MP +2MP Microphotography, Autofocus with flash                                                                                                                                                            |
| NFC                                                   |                                                                                                                                                                                                             |
| Frequency                                             | 13.56 MHz                                                                                                                                                                                                   |
| Protocol                                              | ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.                                                                                                                                                               |
| Chips                                                 | M1 card (S50, S70), CPU card, NFC tags, etc.                                                                                                                                                                |
| Range                                                 | 2-4 cm                                                                                                                                                                                                      |
| Barcode Scanning (optional)                           |                                                                                                                                                                                                             |
| 2D Scanner                                            | Honeywell: N6603 / N6703; CM60                                                                                                                                                                              |
| 1D Symbolgies                                         | 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, 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: C90A / Update Date: 2025-06-30

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