



Android



4G



Wi-Fi



Bluetooth



1D Barcode



2D Barcode



NFC



UHF



Camera



GPS

Chainway C61 is a new generation rugged handheld computer with robust performance. Built with Android 11/13OS and Octa-Core processor, it supports 27 keys / 37 keys / 47 keys optional keypad, abundant accessories like trigger handle, and features powerful removable battery. And it delivers optional barcode scanning, RFID, NFC, etc. This mobile computer can fulfill applications in logistics, warehousing, retail, etc.



## Specification

### Physical Characteristics

<b>Dimensions</b>	202.0 x 72.5 x 32.0mm / 7.95 x 2.85 x 1.26in. ( Device Weight for Argentina, Uruguay, Bolivia, Ecuador market: 342~404g, including battery )
<b>Weight</b>	370g /13.05oz. (SE4710) ; 404g /14.25oz. (SE4850) /26 .05oz. / 738g (SE4850, UHF, pistol battery)
<b>Keypad</b>	Main keyboard (Optional) : 27 keys /37 keys /47 keys; Side keys: 2 scan keys +2 volume keys +1user-defined key
<b>Battery</b>	6700 mAh removable main battery, 5200 mAh optional pistol battery, support QC3.0 and RTC; Built in 100mAh backup battery, supporting battery hot swap, improving reliability and ensuring user data security Standby: up to 680 hours (only main battery ; WiFi: up to 560h; 4G: up to 560h) Continuous use: over 12hours (depending on user environment) Charging time: 3.5 hours (charge device by standard adaptor and USB cable)
<b>Display</b>	4-inch high definition display, 800*480
<b>Touch Panel</b>	Multi-touchpanel, gloves and wet hands supported
<b>Sensor</b>	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 microphones, 1for noise cancellation; 2 speakers; receiver
<b>Card slot</b>	1slot for Micro SIM card, 1slot for TF card
<b>Interfaces</b>	USB Type-C, USB 3.1, OTG, extended thimble

### Performance

<b>CPU</b>	Octa-core, 2.0 GHz
<b>RAM+ROM</b>	3GB +32GB /4GB +64GB
<b>Expansion</b>	Supports up to 256GB Micro SD (TF) card

### Developing Environment

<b>Operating System</b>	Android 11/13;GMS,90-day security updates, Android Enterprise Recommended, Zero-Touch,FOTA, Soti MobiControl, SafeJEM supported. Committed support for a future upgrade to Android 18 pending feasibility
<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 1.8m /5.9 ft. drops (at least 20 times) 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>	IP65 per IEC sealing specifications
<b>ESD</b>	±15KVair discharge, ±8KV conductive discharge

### Communication

<b>WLAN</b>	Support 802.11a/b/g/n/ac/ax-ready/d/e/h/i/k/r/v,2.4G/5G dual-band, IPV4, IPV6, 5G PA; Fast roaming: PMKID caching, 802.11r,OKC Operating Channels: 2.4G(channel 1~13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120, 124,128,132,136,140,144,149,153,157,161,165),Dependson local regulations Security and Encryption:WEP, WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPV2, PEAP-LTS, PEAP-GTC, WPA3-Enterprise,etc.
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<b>Vo-LTE</b>	Support Vo-LTEHD video voice call
<b>Bluetooth</b>	Bluetooth 5.1
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
<b>WWAN (Europe, Asia)</b>	2G: 850/900/1800/1900MHz 3G: CDMA EVDO: BC0 WCDMA: 850/900/1900/2100MHz TD-SCDMA: A/F(B34/B39)
<b>WWAN(America)</b>	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41 2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: Android 11:B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38

### Data Collection

#### Camera

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

<b>Frequency</b>	13.56 MHz
<b>Protocol</b>	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
<b>Chips</b>	M1card (S50, S70), CPU card, NFC tags, etc.
<b>Range</b>	2-4 cm

#### UHF (Optional)

<b>Engine</b>	CM710-1 module based on Impinj E710
<b>Frequency</b>	865-868 MHz /920-925 MHz /902-928 MHz
<b>Protocol</b>	EPC C1GEN2 /ISO18000-6C
<b>Antenna</b>	Circular Polarized Antenna (4 dBi)
<b>Power</b>	1W(30 dBm, +5dBm to +30dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
<b>Max Read Range</b>	27m (Impinj MR6 tag, size70 x 15mm) 26m (Impinj M750 tag, size70 x 15mm) 30m (Alien H3 Anti-Metal tag, size 130x 42mm)
<b>Fastest Read Rate</b>	1300+tags/sec
<b>Communication Mode</b>	Pin Connector

\*Ranges are measured in the open outdoors and low interference environment, and rate is measured in a laboratory low interference environment, they are affected by tags and environment.

#### Barcode Scanning (optional)

<b>2D Scanner</b>	Zebra: SE4710/SE4750SR/SE4750MR/SE4750DP/SE4850; Honeywell: N6603/EX30
<b>1D Symbolologies</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 Symbolologies</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)

Separate handle with one button, Wrist Strap; Charging Cradle

Handle +battery (handle battery 5200 mAh, one button)

UHF back clip +handle (5200 mAh, one button)

