



# C66

## Mobile Computer



Chainway C66 is a highly expandable large-screen rugged handheld computer. Equipped with Qualcomm octa-core processor and Android 9 / 11 OS, C66 comes with a 5.5-inch HD display, barcode scanning, and NFC functions. The device supports quick charge and UHF sled for high extensibility. The premium Android 11 version offers optional fingerprint recognition, volume measurement, built-in UHF functions and with Wi-Fi 6-ready platform for higher data throughput and security that fully satisfy the needs in logistics, warehouse, manufacturing, retail, etc. applications.



UHF



UHF Sled Reader



Pistol Grip

# Specification

Physical Characteristics	
<b>Dimensions</b>	160.0 x 76.0 x 15.5 / 17.0 mm / 6.3 x 2.99 x 0.61 / 0.67 in.
<b>Weight</b>	Android 9: 287g / 10.12oz. (device with battery) 657g / 23.17oz. (with battery, UHF 1, UHF back clip) 798g / 28.15oz. (with battery, UHF 2, C66+R6)  Android 11: 287g / 10.12 oz.(device with battery) 297g / 10.47oz.(device with battery, Fingerprint / Volume Measurement / Built-in UHF)
<b>Keypad</b>	1 power key, 2 scan keys, 2 volume keys
<b>Battery</b>	Removable main battery (normal version:4420 mAh ; Android 11 with fingerprint / built-in UHF / volume measurement version: 5200mAh )  5200 mAh optional pistol battery, support QC3.0 and RTC  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>Speaker</b>	Support
<b>Microphone</b>	2 Microphones, 1 for noise reduction
<b>Display</b>	5.5-inch high definition full display (18:9), IPS IGZO 1440 x 720
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	Accelerometer sensor, light sensor, proximity sensor, gravity sensor, vibration motor
<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>	Android 9: USB Type-C, USB 3.0, OTG, extended thimble; Android 11: USB Type-C, USB 3.1, OTG, extended thimble;
Performance	
<b>CPU</b>	Android 9: Qualcomm Snapdragon™ 450 Octa-core, 1.8 GHz Android 11: Qualcomm Snapdragon™ 662 Octa-core, 2.0 GHz
<b>RAM+ROM</b>	3 GB + 32 GB / 4 GB + 64 GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card
Developing Environment	
<b>Operating System</b>	Android 9: GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported  Android 11: GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 12, 13, and Android 14 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 - 95% RH non condensing
<b>Drop Specification</b>	Multiple 1.8 m / 5.91 ft. drops (at least 20 times) to the concrete across the operating temperature range  Multiple 2.4 m / 7.87 ft. drops (at least 20 times) to the concrete after installed rubber bumper
<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>	±15 KV air discharge, ±8 KV conductive discharge
Communication	
<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
<b>Bluetooth</b>	Android 9: Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR Android 11: Bluetooth 5.1
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

	Support 802.11 a/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
<b>WLAN</b>	Operating Channels: 2.4G(channel 1~13), 5G(channel36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,144,149,153,157,161,165), 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.
	2G: 850/900/1800/1900 MHz
	3G: CDMA EVDO: BC0
<b>WWAN (Europe, Asia)</b>	WCDMA: 850/900/1900/2100MHz  TD-SCDMA: A/F(B34/B39)
	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
	2G: 850/900/1800/1900 MHz
<b>WWAN(America)</b>	3G: 850/900/1900/2100 MHz
	4G: Android 9: B2/B4/B5/B7/B12/B17/B38 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>	M1 card (S50, S70), CPU card, NFC tags, etc.
<b>Range</b>	2-4 cm

## Barcode Scanning (Optional)

<b>2D Scanner</b>	Zebra: SE4710/SE2100, Honeywell: N6603; E3200; IA166S
<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.

## UHF1 (Optional)

<b>Engine</b>	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
<b>R/W range</b>	Up to 15 m (open outdoors, Impinj MR6 tag)

\*For detailed specification, please check C66 UHF part

## UHF2 (Optional)

<b>Engine</b>	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
<b>R/W range</b>	Up to 10 m (open outdoors, Impinj MR6 tag)

\*For detailed specification, please check C66 UHF part

## UHF3 (Optional, only Android 11, Built-in UHF)

<b>Power</b>	1W (+19 dBm to +30 dBm adjustable)
<b>R/W range</b>	Up to 3 m

\*For detailed specification, please check C66 UHF part

## Fingerprint (Optional, only Android 11)

<b>Sensor</b>	Capacitive TCS1
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\* For detailed specification, please check C66 Fingerprint part

## Volume Measurement (Optional, only Android 11)

<b>Measured distance</b>	40m-4m
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\* For detailed specification, please check C66 Volume Measurement part

## Optional accessories(See details in Accessory Guide)

Separate handle with one button ; Handle + battery (handle battery 5200 mAh, one button) ;

UHF back clip + handle (5200 mAh, one button) ; Wrist Strap; Rubber Bumper; Charging Cradle

Notice: Product specifications are subject to change without prior notice. / Model: C66 / Update Date: 2022-03-17

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