



C66

Mobile Computer



Chainway C66 is a highly expandable large-screen rugged handheld computer. Equipped with Qualcomm octa-core processor and Android 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	
Dimensions	160.0 x 76.0 x 15.5 / 17.0mm / 6.3 x 2.99 x 0.61 / 0.67in.
Weight	287g / 10.12oz.(device with battery) 297g / 10.47oz.(device with battery, Fingerprint / Volume Measurement / Built-in UHF)
Keypad	1 power key, 2 scan keys, 2 volume keys
Battery	Removable main battery (normal version:4420 mAh ; Android 11 with fingerprint / built-in UHF / volume measurement version: 5200mAh) 5200mAh 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)
Display	5.5-inch high definition full display (18:9), IPS IGZO 1440 x 720
Touch Panel	Multi-touch panel, gloves and wet hands supported
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
Notification	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Card slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB Type-C, USB 3.1, OTG, extended thimble;
Performance	
CPU	Qualcomm Snapdragon™ 662 Octa-core, 2.0 GHz
RAM+ROM	3GB + 32GB / 4GB + 64GB
Expansion	Supports up to 128GB Micro SD card
Developing Environment	
Operating System	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
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 1.8m / 5.91ft. drops (at least 20 times) to the concrete across the operating temperature range Multiple 2.4m / 7.87ft. drops (at least 20 times) to the concrete after installed rubber boots
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	± 15KV air discharge, ± 8KV conductive discharge
Communication	
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
WLAN	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 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 WCDMA: 850/900/1900/2100MHz TD-SCDMA: A/F(B34/B39) 4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
WWAN (Europe, Asia)	2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38
WWAN(America)	
Data Collection	
Camera	
Rear Camera	Rear 13MP Autofocus with flash
NFC	
Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm
Barcode Scanning (Optional)	
2D Scanner	Zebra: SE4710/SE2100; Honeywell: N6603; E3200; IA166S; CM60
1D Symbologies	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.
UHF	
*For detailed specification, please check C66 UHF part	
Fingerprint (Optional, only Android 11)	
Sensor	TCS1
Sensing Area (mm)	12.8 x 18.0 ; 10.4 x 14.4
Resolution (dpi)	508 dpi, 8-bit greylevel
Certifications	FIPS 201, STQC
Format Extraction	ISO 19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Support by SDK
Security	AES, DES key encryption of the host communication channel
* Fingerprint version does not support pistol	
Volume Measurement (Optional, only Android 11)	
Sensor	IRS1645C
Measurement Error	< 5%
Module	MD101D
Field of view Angle	D71°/H60°/V45°
Measurement speed	2s / piece
Measured distance	40cm-4m
* Volume Measurement version does not support pistol	
Optional accessories(See details in Accessory Guide)	
Separate handle with one button ; Handle + battery (handle battery 5200mAh, one button) ; UHF back clip + handle (5200mAh, one button) ; Wrist Strap; Rubber Bumper; Charging Cradle	

Notice: Product specifications are subject to change without prior notice. / Model: C66 / Update Date: 2023-02-24

CHAINWAY®

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Specification

UHF1

UHF Back Clip



UHF2

C66 + R6 UHF Sled



UHF3

C66 UHF (Built-in)



UHF1 (Optional, C66 UHF Back Clip)

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (4dBi)
Power	1W (30dBm, +5dBm to +30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Max Read Range	Impinj E710 chip: 28m (Impinj MR6 tag, size 70 x 15mm) 28m (Impinj M750 tag, size 70 x 15mm) 32m (Alien H3 Anti-Metal tag, size 130 x 42mm) Impinj R2000 chip: 22m (Impinj MR6 tag, size 70 x 15mm) 24m (Impinj M750 tag, size 70 x 15mm) 30m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	1150+ tags/sec
Communication Mode	Pin Connector

UHF2 (Optional, C66 + R6 UHF Sled)

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (3dBi)
Power	1W (30dBm, support +5*+30dBm adjustable) 2W Optional (33dBm, for Latin America, etc.)
Max Read Range	Impinj E710 chip: 30m (Impinj MR6 tag, size 70 x 15mm) 28m (Impinj M750 tag, size 70 x 15mm) 31m (Alien H3 Anti-Metal tag, size 130 x 42mm) Impinj R2000 chip: 25m (Impinj MR6 tag, size 70 x 15mm) 26m (Impinj M750 tag, size 70 x 15mm) 25m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	1150+ tags/sec
Communication Mode	Pin Connector / Bluetooth

UHF3 (Optional, only Android 11, C66 UHF Built-in)

Engine	CM-5N module based on Impinj E510
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (-5 dBi)
Power	1 W (+5dBm to +30dBm adjustable)
Max Read Range	2.4m (Impinj MR6 tag, size 70 x 15mm) 2.6m (Impinj M750 tag, size 70 x 15mm) 2.7m (Alien H3 Anti-Metal tag, size 130 x 42mm)

* 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.

* built-in UHF version does not support pistol