CHAINWAY®





C66

Mobile Computer



Android



Wi-Fi





Bluetooth



1D Barcode 2D Barcode















Chainway C66 is a highly expandable large-screen rugged handheld computer. Equipped with octa-core processor and Android 11 / 13, 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 / 13 version offer 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 Built-In

Specification

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 / Bullt-in UHF)
Keypad	1 power key, 2 scan keys, 2 volume keys
	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
Battery	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 1440 x 720
Touch Panel	Multi-touch panel, gloves and wet hands supported
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor gyroscope sensor (optional), geomagnetic sensor (optional)
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
nterfaces	USB Type-C, USB 3.1, OTG, extended thimble;
Performance	
CPU	Octa-core, 2.0 GHz
RAM+ROM	3GB + 32GB / 4GB + 64GB
Expansion	Supports up to 256GB Micro SD (TF) card
Developing E	nvironment
	Android 11/13; GMS, 90-day security updates, Android Enterprise
Operating System	Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported Committed support for a future upgrade to Android 18 pending feasibility
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse / Android Studio
User Environr	nent
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
	Multiple 1.8m / 5.91ft. drops (at least 20 times) to the concrete across the operating temperature range
Drop Specification	Multiple 2.4m / 7.87ft. drops (at least 20 times) to the concrete after installed rubber boots
	$\label{eq:mills} \mbox{MIL-STD-810H(SGS Test): Multiple 1.22 M drops (at least 20 times) to the plate across the operating temperature range}$
Tumble Specification	$1000 \times 0.5 \text{m} / 1.64 \text{ft.}$ falls at room temperature
Sealing	IP65 per IEC sealing specifications, IP67 optional
ESD	± 15KV air discharge, ± 8KV conductive discharge
Communication	on
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Bluetooth 5.1
GNSS	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
WLAN	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, WPA:

WWAN (Europe, Asia)	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(America)	2G: 850/900/1800/1900MHz
	3G: 850/900/1900/2100MHz
	4G: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38

Data Collection

nera

Danes	2.4
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Frequency	13.56MHz
NFC	
Real Callera	Facial Recognition ISO19794-5 Compatible

Rear 13MP Autofocus with flash

Barcode Scanning (Optional)

2D Scanner	Zebra: SE4710/SE2100; Honeywell: N6603/6803FR; 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 1

Sensor	TCS1
Sensing Area (mm)	12.8 × 18.0
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

Optional 2

Sensor	TLK1NC02
Sensing Area (mm)	14.0 X 22.0
Resolution (dpi)	508dpi, 256 greylevel
Certifications	FIPS 201, FBI
Format Extraction	ISO19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Support by SDK
Security	AES, DES key encryption of the host communication channel

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: 2024-09-20

Specification



UHF3 (Optional, 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	Linear Polarized Antenna (-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