

CHAINWAY[®]

LEADING TO AN INTELLIGENT FUTURE

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Handheld RFID Readers

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Rugged Tablet

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Wearable RFID Readers

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Fixed RFID Readers

UR4	Fixed RFID Reader
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RFID Modules

CM2000-1	UHF RFID Module
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CMX10-1	UHF RFID Module
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CM710-16	UHF RFID Module

Vehicle Computers

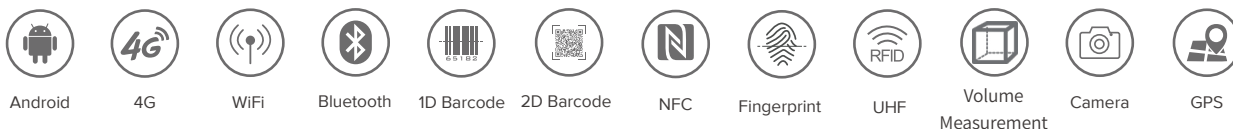
V600S	Vehicle Computer
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CHAINWAY®



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, and built-in UHF functions and Wi-Fi 6 support 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 / 17.0 mm / 6.3 x 2.99 x 0.61 / 0.67 in.
Weight	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: 295g / 10.40 oz.(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)
	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)
Speaker	Support
Vibrator	Support
Microphone	2 Microphones, 1 for noise reduction
Display	5.5-inch high definition full display (18:9), IPS IGZO 1440 x 720
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Sensor	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
Indicator LED	Power, charging, status indicator
Card slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	Android 9: USB Type-C, USB 3.0, OTG, extended thimble; Android 11: USB Type-C, USB 3.1, OTG, extended thimble;
Performance	
CPU	Android 9: Qualcomm Snapdragon™ 450 Octa-core, 1.8 GHz Android 11: Qualcomm Snapdragon™ 662 Octa-core, 2.0 GHz
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB
Expansion	Supports up to 128 GB Micro SD card
Developing Environment	
Operating System	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
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 1.8 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
Tumble Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge
Communication	
Vo-LTE	Support Vo-LTE HD video voice call
Bluetooth	Android 9: Bluetooth 4.2/4.1+HS/4.0/3.0+HS/2.1+EDR Android 11: Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna

WLAN	Support 802.11 a/b/g/n/ac/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.
WWAN (Europe, Asia)	2G: 850/900/1800/1900 MHz
	3G: CDMA EVDO: BC0
	WCDMA: 850/900/1900/2100MHz
	TD-SCDMA: A/F(B34/B39)
WWAN(America)	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41
	2G: 850/900/1800/1900 MHz
	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	
Rear Camera	Rear 13MP 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	Zebra: SE4710/SE2100; Honeywell: N6603; E3200; IA166S
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Symbolologies	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)	
Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
R/W range	Up to 15 m (open outdoors, Impinj MR6 tag)
*For detailed specification, please check C66 UHF part	

UHF2 (Optional)	
Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
R/W range	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)	
Power	1 W (+19 dBm to +30 dBm adjustable)
R/W range	3 m
*For detailed specification, please check C66 UHF part	

Fingerprint (Optional, only Android 11)	
Sensor	Capacitive TCS1
* For detailed specification, please check C66 Fingerprint part	

Volume Measurement (Optional, only Android 11)	
Measured distance	40m-4m
* 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: 2022-01-14

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Specification

UHF1

UHF Back Clip



UHF2

C66+R6 Sled



UHF3

Built-in UHF



UHF1 (Optional)

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (4 dBi)
Power	1W (30 dBm, +5 dBm to +30 dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
R/W range	Up to 15 m (open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+ tags/sec
Communication Mode	Pin Connector

UHF2 (Optional)

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular Polarized Antenna (3 dBi)
Power	1W (30 dBm, support +5~+30 dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
R/W range	Up to 10 m (open outdoors, Impinj MR6 tag)
Fastest Read Rate	900+ tags/sec
Communication Mode	Pin Connector / Bluetooth

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

Engine	CM510-1 module based on Impinj E510
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (-2.5 dBi)
Power	1 W (+19 dBm to +30 dBm adjustable)
R/W range	3 m

*Ranges and rates depend on tags and environment, built-in UHF version does not support pistol

Fingerprint



Fingerprint (Optional, only Android 11)

Sensor	TCS1
Sensing Area (mm)	12.8 × 18.0 ; 10.4 × 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



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