

C66

Mobile Terminal

Android | 4G | Wi-Fi | Bluetooth | Barcode 1D | Barcode 2D | NFC | Fingerprint | UHF | Volume Measurement | Camera | GPS

The C66 is a large-screen, highly expandable mobile terminal. Equipped with an octa-core Qualcomm processor and Android 11 / 13, the C66 features a 5.5-inch HD display, barcode scanning and NFC. The device supports fast charging and a UHF sled for high extensibility. The premium Android 11 / 13 version offers fingerprint recognition, volume measurement, integrated UHF and a Wi-Fi 6-ready platform for greater performance and security, fully meeting the needs of logistics, warehouse, manufacturing, retail and other applications.



UHF



UHF Sled Reader



Pistol Grip

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Specifications

Physical Characteristics

Dimensions	160.0 x 76.0 x 15.5 / 17.0mm / 6.3 x 2.99 x 0.61 / 0.67in.
Weight	287 g / 10.12 oz (device with battery) 297 g / 10.47 oz (device with battery, fingerprint / volume measurement / built-in UHF)
Keypad	1 power key, 2 scan keys, 2 volume keys
Battery	Removable main battery (standard version: 4420 mAh; Android 11 version with fingerprint / built-in UHF / volume measurement: 5200 mAh)
	Optional 5200 mAh pistol-grip battery, QC3.0 and RTC supported
	Standby: up to 490 hours (main battery only; WiFi: up to 470 h; 4G: up to 440 h)
	Continuous use: over 12 hours (depending on user environment)
	Charging time: 2.5 hours (charging the device with standard adapter and USB cable)
Display	5.5-inch high-definition full screen (18:9), IPS 1440 x 720
Touch panel	Multi-touch panel, works with gloves and wet hands
Sensors	Accelerometer, light sensor, proximity sensor, gravity sensor, gyroscope (optional), geomagnetic sensor (optional)
Notifications	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Card Slots	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	Octa-core, 2.0 GHz
RAM+ROM	3GB + 32GB / 4GB + 64GB
Expansion	Supports up to 256GB Micro SD (TF) card

Development Environment

Operating System	Android 11/13; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeUEM supported. Committed support for a future upgrade to Android 18, subject to 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 concrete across the operating temperature range
	Multiple 2.4 m / 7.87 ft drops (at least 20 times) to concrete after installing the rubber boots
	MIL-STD-810H (SGS tested): Multiple 1.22 m drops (at least 20 times) to plywood across the operating temperature range
Tumble	1000 x 0.5 m / 1.64 ft tumbles at room temperature
Sealing	IP65 per IEC sealing specifications, IP67 optional
ESD	± 15KV air discharge, ± 8KV conductive discharge

Communication

Vo-LTE	HD Vo-LTE voice and video call support
Bluetooth	Bluetooth 5.1
GNSS	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
WLAN	Supports 802.11 a/b/g/n/ac/ax-ready/d/e/h/i/k/r/v, dual-band 2.4G/5G, IPV4, IPV6, PA 5G;
	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), depending 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, WPA3-Enterprise, 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)
	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

Camera

Rear camera	13MP with autofocus and 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	2-4cm

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 specifications, see the C66 UHF section

Fingerprint

Option 1

Sensor	TCS1
Sensing Area (mm)	12.8 × 18.0
Resolution (dpi)	508 dpi, 8-bit grayscale
Certification	FIPS 201, STQC
Template Format	ISO 19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Supported by SDK
Security	AES, DES key encryption of the host communication channel

Option 2

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

Volume Measurement (Optional, Android 11 only)

Sensor	IRS1645C
Measurement Error	< 5%
Module	MD101D
Field of View Angle	D71°/H60°/V45°
Measurement Speed	2s / item
Measuring Distance	40cm-4m

* The Volume Measurement version is not compatible with the pistol grip

Optional accessories (see the Accessories Guide for details)

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

UHF back clip + handle (5200mAh, one button); Wrist strap; Rubber bumper; Charging cradle

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Specifications

UHF1

UHF Back Clip



UHF2

C66 + R6 UHF Sled



UHF3

C66 UHF (integrated)



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)
Output Power	1W (30dBm, adjustable from +5~+30dBm)
	2W Optional (33dBm, for Latin America, etc.)
Maximum 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)
Max. Read Speed	1300+ 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)
Output Power	1W (30dBm, adjustable from +5~+30dBm)
	2W Optional (33dBm, for Latin America, etc.)
Maximum 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)
Max. Read Speed	1300+ tags/sec
Communication Mode	Pin Connector / Bluetooth

UHF3 (Optional, UHF Integrated in C66)	
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)
Output Power	1 W (adjustable from +5dBm to +30dBm)
Maximum 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 outdoors in open areas with low interference, and the rate is measured in a low-interference lab environment; both are affected by the tags and the environment.
* The integrated UHF version is not compatible with the pistol grip.

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