



Mobile Computer



This is a highly expandable large-screen rugged handheld computer. Equipped with Qualcomm 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 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 / 17.0 mm / 6.3 x 2.99 x 0.61 / 0.67 in.
Weight	287g / 10.12 oz.(device with battery) 297g / 10.47 oz.(device with battery, Fingerprint / Volume Measurement / Built-in UHF)
Keypad	1 power key, 2 screen keys, 2 volume keys
Battery	Removable main battery (normal version:4420 mAh; Android 11.0 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; Wi-Fi: 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
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 throttle;

Performance	
CPU	Octa-core, 2.0 GHz
RAM/ROM	3GB / 32GB / 4GB / 64GB
Expansion	Supports up to 256GB Micro SD (TF) card

Developing Environment	
Operating System	Android 11/13; GMS, 90-day security updates, Android Enterprise Recommended, ZeroTouch, FOTA, Safe Mobile Control, SafeUEM supported. Committed support for a future upgrade to Android 18 pending feasibility
SDK	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 170 °C
Humidity	5% RH-95% RH non condensing
Drop Specification	Multipile 1.8 m / 5.91 ft. drops (at least 20 times) to the concrete across the operating temperature range
	Multipile 2.4 m / 7.87 ft. drops (at least 20 times) on the concrete after installed rubber bumper
Turntable Specification	1000 x 0.5 m / 1.64 ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications, IP67 optional
ESD	±15 KV air discharge, 18 KV conductive discharge

Communication	
VoLTE	Support VoLTE 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/dual band, 2.4G/5G dual-band, 1Pv4, 1Pv6, 5G PA;
	Fast roaming: PMR/D caching, 802.11r, OKC
	Operating Channels: 2.4G(channel 1~13), 5G(channel 36,40,44,48,52,56,60,64,100, 04,108,112,116,120,121,128,132, 136,140,144,149,153,157,161,165). Depends on local regulations
WWAN (Europe, Asia)	Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WPA2-PSK←EAP-TLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP-GTC, WPA3-Enterprise, etc.
	2G: 850/900/1800/1900 MHz
	3G: CDMA EVDO: BC0 WCDMA: 850/900/900/2100MHz TD-SCDMA: A/F(B34/B39)
	4G: B1/B3/B5/B7/B8/B20/B38/B39/B40/B41

WWAN(America)	2G: 850/900/1800/1900 MHz
	3G: 850/900/1900/2100 MHz
	4G: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28R/B38

Data Collection	
Camera	
Rear Camera	Rear 13MP Autofocus with flash
NFC	
Frequency	13.56 MHz
Protocol	ISO14443A/B, ISO15693, NFCIP1, NFCIP2, etc.
Chips	MI card (S50, S70), CPU card, NFC tags, etc.
Range	2-4 cm
Barcode Scanning (optional)	
2D Scanner	Zebra: SE4710/SE2100; Honeywell: N6603; E3200; IA166S; CM60; 6803FR
1D Symbolologies	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codebar, MSI, RSS, etc.
2D Symbolologies	PDF417, MicroPDF417, Composite, RSS, TLC39, DataMatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, J5 FinNet, UK Postal, Australian Postal, Japan Postal, Dutch Postal (4X), etc.

UHF	
*For detailed specification, please check UHF part	

Fingerprint (Optional)	
Optional 1	
Sensor	TCS1
Sensing Area (mm)	12.8 × 18.0
Resolution (dpi)	508 dpi, 8-bit grayscale
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	

Optional 2	
Sensor	LS1KNC02
Sensing Area (mm)	14.0 × 22.0
Resolution (dpi)	508dpi, 256 grayscale
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	RS1645C
Measurement Error	< ±5%
Module	MD101D
Field of view Angle	D/1°/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 5200 mAh, one button);	
UHF back clip + handle (5200 mAh, one button); Wrist Strap; Rubber Bumper; Charging Cradle	

Specification

UHF1

UHF Back Clip



UHF2

UHF Sled



UHF3

Built-in UHF



UHF1 (Optional)

Engine	Based on Impinj E710 / 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.)
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	1300+ tags/sec
Communication Mode	Pin Connector

UHF2 (Optional)

Engine	Based on Impinj E710 / 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.)
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	1300+ tags/sec
Communication Mode	Pin Connector / Bluetooth

UHF3 (Optional, Built-in UHF)

Engine	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	1W (15 dBm to +30 dBm 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