Fingerprint Recognition

Built-in UHF
RFID

Volume Measurement

Mobile Computer

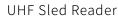|												
Android	4G	Wi-Fi	Bluetooth	1D Barcode	2D Barcode	NFC	Fingerprint	UHF	Volume Measurement	Camera	GPS	

This 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 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 / 10.47oz.(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 11.0 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 ; 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
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	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, Zero-Touch, FOTA, Soti MobiControl, 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 ℃ to +50 ℃
Storage Temp.	-40°F to 158°F / -40 ℃ to +70 ℃
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, IP67 optional
ESD	±15 KV air discharge, ±8 KV 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, 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: 850/900/1800/1900 MHz 3G: 850/900/1900/2100 MHz 4G: 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; CM60; 6803FR
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 UHF part

Fingerprint (Optional)

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

* Fingerprint version does not support pistol

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 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
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	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)
Fastest Read Rate	1300+ tags/sec
Communication Mode	Pin Connector

UHF2 (Optional)	
Engine	Based on Impinj E710
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	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)
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	1 W (+5 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