



# Mobile Computer



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, 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

<b>Dimensions</b>	160.0 x 76.0 x 15.5 / 17.0 mm / 6.3 x 2.99 x 0.61 / 0.67 in.
<b>Weight</b>	287g / 10.12 oz.(device with battery) 297g / 10.47oz.(device with battery, Fingerprint / Built-in UHF)
<b>Keypad</b>	1 power key, 2 scan keys, 2 volume keys
<b>Battery</b>	Removable main battery (normal version:4420 mAh ; Android 11.0 with fingerprint / built-in UHF / 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)
<b>Display</b>	5.5-inch high definition full display (18:9), IPS 1440 x 720
<b>Touch Panel</b>	Multi-touch panel, gloves and wet hands supported
<b>Sensor</b>	Accelerometer sensor, light sensor, proximity sensor, gravity sensor
<b>Notification</b>	Sound, LED indicator, vibrator
<b>Audio</b>	2 microphones, 1 for noise cancellation; 1 speaker; receiver
<b>Card slot</b>	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
<b>Interfaces</b>	USB Type-C, USB 3.1, OTG, extended thimble;

## Performance

<b>CPU</b>	Octa-core, 2.0 GHz
<b>RAM+ROM</b>	3GB + 32GB / 4GB + 64GB / 6GB + 128GB
<b>Expansion</b>	Supports up to 256GB Micro SD (TF) card

## Developing Environment

<b>Operating System</b>	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
<b>SDK</b>	Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	-4°F to 122°F / -20 °C to +50 °C
<b>Storage Temp.</b>	-40°F to 158°F / -40 °C to +70 °C
<b>Humidity</b>	5% RH - 95% RH non condensing
<b>Drop Specification</b>	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
<b>Tumble Specification</b>	1000 x 0.5 m / 1.64 ft. falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications, IP67 optional
<b>ESD</b>	±15 KV air discharge, ±8 KV conductive discharge

## Communication

<b>Vo-LTE</b>	Support Vo-LTE HD video voice call
<b>Bluetooth</b>	Bluetooth 5.1
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou, Galileo, internal antenna
<b>WLAN</b>	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.
<b>WWAN (Europe, Asia)</b>	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

<b>WWAN(America)</b>	2G: 850/900/1800/1900 MHz 3G: 850/900/1900/2100 MHz 4G: B2/B4/B5/B7/B8/B12/B13/B17/B28A/B28B/B38
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## Data Collection

### Camera

<b>Rear Camera</b>	Rear 13MP Autofocus with flash
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### NFC

<b>Frequency</b>	13.56 MHz
<b>Protocol</b>	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
<b>Chips</b>	M1 card (S50, S70), CPU card, NFC tags, etc.
<b>Range</b>	2-4 cm

### Barcode Scanning (optional)

<b>2D Scanner</b>	Zebra: SE4710/SE4100; Honeywell: N6603/N6703/6803FR/HS7; IA166S; CM60;
<b>1D Symbologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
<b>2D Symbologies</b>	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

<b>Sensor</b>	TCS1
<b>Sensing Area (mm)</b>	12.8 x 18.0
<b>Resolution (dpi)</b>	508 dpi, 8-bit greylevel
<b>Certifications</b>	FIPS 201, STQC
<b>Format Extraction</b>	ISO 19794, WSQ, ANSI 378, JPEG2000
<b>Fake Finger Detection</b>	Support by SDK
<b>Security</b>	AES, DES key encryption of the host communication channel

\* Fingerprint version does not support pistol

#### Optional 2

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

### 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)

<b>Engine</b>	Based on Impinj E710
<b>Frequency</b>	865-868 MHz / 920-925 MHz / 902-928 MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Circular Polarized Antenna
<b>Power</b>	1W (30 dBm, +5 dBm to +30 dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
<b>Max Read Range</b>	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)
<b>Fastest Read Rate</b>	1300+ tags/sec
<b>Communication Mode</b>	Pin Connector

### UHF2 (Optional)

<b>Engine</b>	Based on Impinj E710
<b>Frequency</b>	865-868 MHz / 920-925 MHz / 902-928 MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Circular Polarized Antenna
<b>Power</b>	1W (30 dBm, support +5~+30 dBm adjustable) 2W Optional (33 dBm, for Latin America, etc.)
<b>Max Read Range</b>	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)
<b>Fastest Read Rate</b>	1300+ tags/sec
<b>Communication Mode</b>	Pin Connector / Bluetooth

### UHF3 (Optional, Built-in UHF)

<b>Engine</b>	Based on Impinj E510
<b>Frequency</b>	865-868 MHz / 920-925 MHz / 902-928 MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	Linear Polarized Antenna
<b>Power</b>	1 W (+5 dBm to +30 dBm adjustable)
<b>Max Read Range</b>	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