

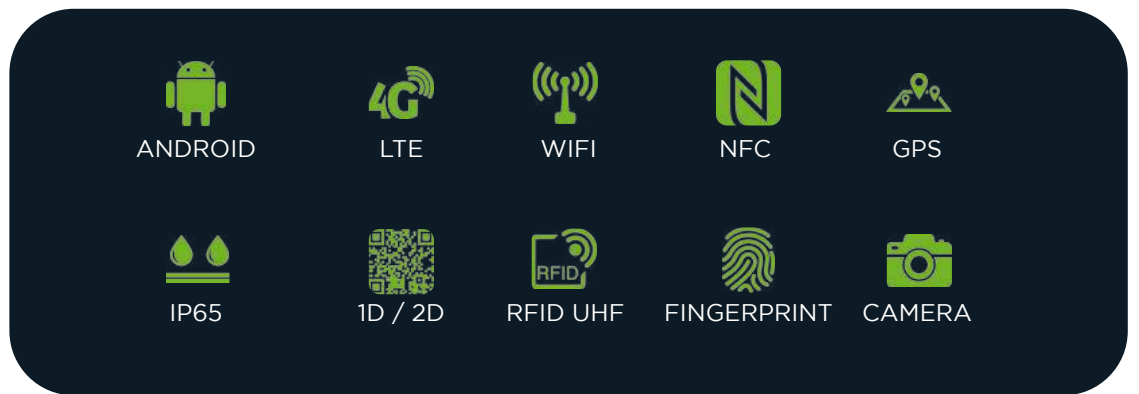
C66

Retail Android Mobile Computer



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



Integrated UHF RFID

C66 Specifications



Physical Characteristics

Dimensions	160*76*15mm
Weight	287gr with battery (Android 9) 259gr with battery (Android 11)
Display	5.5" high definition full display (18:9) IPS LTPTS 1420x720
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Primary battery: Removable Li-ion, rechargeable, 4300mAh Secondary Battery: Pistol grip Li-ion rechargeable 5200mAh Standby: Over 300 hours with Primary battery Continuous use: Overs 12 hours depending on user environment Support Quick Charge 3.0 Charging time: 2.5h with standard USB adapter
Expansion Slot	1 slot for nano SIM 1 slot for nano SIM or TF card
Interfaces	USB 3.0 Type-C, OTG (Android 9) USB 3.1 Type-C, OTG (Android 11)
Audio	Speaker, microphone
Indicator LED	Power charging, Status indicator
Keypad	1 Power Key, 1 PPT Key, 2 Scan Keys, 2 Volume Keys
Sensors	Gravity sensor, Light Sensor, Proximity Sensor, Accelerometer

Performance

CPU	Android 9 Qualcomm Snapdragon™ 450 Octa-core, 1.8 GHz Android 11 Qualcomm Snapdragon™ 662 Octa-core, 2.0 GHz
RAM+ROM	3GB+32GB / 4GB+64Gb
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, SafeJEM supported Android 11; GMS, 90-day security updates, Android Enterprise Recommended, Zero-Touch, FOTA, Soti MobiControl, SafeJEM 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.	-20°C to 50°C
Storage Temp.	-40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.8m drops to the concrete across the operating temperature range Multiple 2.4m drops to the concrete with options bumpers installed
Tumble Specification	1000 x 0.5m falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	15KV air discharge, ±8KV conductive discharge

Communication

Vo-LTE	Support Vo-LTE HD video voice call 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
WLAN	Operating Channels: 2.4G(channel 1-13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120, 124,128,132, Security and Encryption: WEP, WPA/WPA2-PSK(TKIP and AES), WAPIPSK— EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS,PEAP-GTC,etc.
WWAN(EU)	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
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 with internal antenna

RFID

UHF 1 (Optional)	
Frequency	865MHz-868MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (+5dBm to 30dBm adjustable) 2W (+5dBm to 33dBm adjustable) options
Read/Write Range	> 15m with Circular Antenna outdoor

UHF 2 (Optional only Androi 11 - Built In Antenna)

Frequency	865MHz-868MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Power	1W (+19dBm to 30dBm adjustable)
Read/Write Range	3m with Circular Antenna indoor

(* Read/write Range and Reading Rates depend on tags and environments. Tested with Impinj MR6 tag

NFC

Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC
Chip	M1 card (S50, S70), CPU card, etc.

Barcode Scanning (Optional)

Scan Engine	Zebra SE4710, SE2100, Honeywell N6603
1D Symbologies	UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, 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.

Camera

Rear Camera	13MP Autofocus with flash
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C66 Specifications



UHF 1
Back Clip



RFID UHF 1 (Optional)

Engine	CM710-1 module based on Impinj E710 CM2000-1 module based on Impinj Indy R2000
Frequency	865MHz-868MHz
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.)
Read/Write Range	Up to 15 m (open outdoors, Impinj MR6 tag)

UHF 2
Built In



RFID UHF 2 only on Android 11

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

Fingerprint



Fingerprint only on Android 11

Sensor	TCS1
Sensing Area	12.8 x 18.0
Resolution	508dpi, 8-bit greyscale
Certifications	FIPS 201, STQC
Format Extraction	ISO 19794, WSQ, ANSI 378, JPEG2000
Fake Finger Detection	Supported by SDK
Security	AES, DES key encryption on the host communication channel

Volume
Measurement



Volume Measurement only on Android 11

Sensor	IRS1645C
Measurement Error	<5%
Module	MD101D
Filed of View	D71° / H60° / V45°
Measurement Speed	2s / piece
Measured Distance	40cm to 4m

TechSigno srl is an independent company that build RFID system and intelligent objects for multimedia, industrial, transportation, medical, and wireless applications. Working closely with our customers, we meet the specific made-to-order demands of our customer to achieve maximum functionality, efficiency, reliability and therefore satisfaction.

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