

# C71

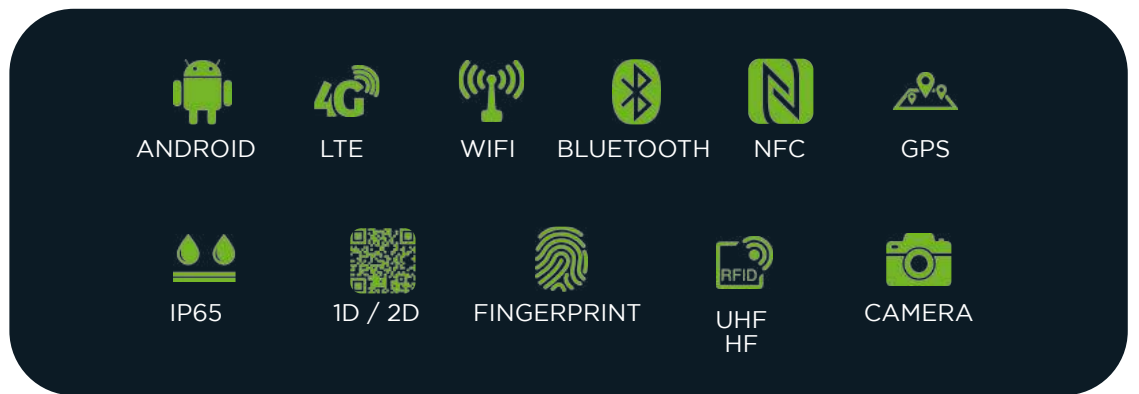
## Multifunctional Android Mobile Computer



This device with abundant functions is an Android rugged mobile computer. With its powerful processor, stable wireless connections and comprehensive data capture options, you can find this easy-to-deploy device a valuable helper to increase productivity in logistics, warehousing, retail, identity verification, meter reading, IC card reading and etc.

It is improved to enable capacitive fingerprint sensor TCS1/TCS2 and optical sensor CBM-E3. C71 is revolutionised to be FIPS 201 compliant, and enable secure data encryption and fake finger detection. C71 with biometric functions can best satisfy your needs of identity verification

It can be configured with internal UHF module with 1.5dBi circularly polarized antenna.



# C71 Specifications



Physical Characteristics	
<b>Dimensions</b>	164,2*78,8*17mm 288gr (for standard version) 314gr fingerprint version 321gr UHF Version
<b>Weight</b>	5,2" IPS FHD 1920x1080
<b>Display</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Touch Panel</b>	Main battery: Li-ion, rechargeable, 5000mAh Standby over 350 hours Continuous work over 12 hours (depending on user environment) Charging time 3 to 4h with standard usb adaptor and cable
<b>Power</b>	1 Slot for SIM card, 1 Slot for SIM or TF card 2 optional slots for PSAM cards (ISO7816 T=0, T=1 Protocol)
<b>Expansion Slot</b>	USB2.0 Type-C, OTG
<b>Interfaces</b>	Speaker, microphone
<b>Audio</b>	4 Front Key, 2 Scan Keys, 1 Power Key, 1 Multifunctional Key
<b>Keypad</b>	Gravity sensor, Light Sensor, Proximity Sensor, Vibration Motor
<b>Sensors</b>	

Communication	
<b>WLAN</b>	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna 2G: GSM850/GSM900/DCS1800/PCS1900 3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0
<b>WWAN(Europe)</b>	TD-SCDMA: A/F 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41 Android 8.1: Bluetooth 2.1+EDR, 3.0+HS, 4.1+HS Android 11: Bluetooth 5.0
<b>Bluetooth</b>	
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou with internal antenna

RFID (Optional)	
<b>UHF Engine</b>	CM-Q module: CM310-1 module based on Impinj E310
<b>Frequency</b>	865MHz-868MHz / 920MHz-925MHz / 902MHz-928MHz
<b>Protocol</b>	EPC C1 GEN2 / ISO18000-6C
<b>Antenna</b>	1dBi Circular Polarization
<b>Power</b>	1 W (+19 dBm to +30 dBm adjustable)
<b>Read/Write Range</b>	3m

(\*) Read/write Range and Reading Rates depend on tags and environments

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

HF (Optional)	
<b>Frequency</b>	13.56MHz
<b>Protocol</b>	ISO14443A/B - ISO15693
<b>Chips</b>	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card, CPU_B card, ICODE II, T12048, LRI64K, Others for customizations
<b>Range</b>	3-8cm

(\*) HF RFID is alternative to NFC - Read/write Range and Reading Rates depend on tags and environments

Fingerprint (Optional)	
<b>Option 1 Sensor</b>	TCIS/TC52 Capacitive
<b>Sensing Area (mm)</b>	12,8*19 / 10,4*14,4
<b>Resolution (dpi)</b>	508dpi 8-bit greylevel
<b>Certification</b>	FIPS 201, STQC
<b>Format Extraction</b>	ISO19794, WSQ, ANSI 378, JPEG 2000
<b>Fake Finger Detection</b>	Support by SDK
<b>Security</b>	AES, DES Key encryption of the host communication channel

Option 2	
<b>Sensor</b>	Optical Morpho CBM-E3
<b>Sensing Area (mm)</b>	14x22
<b>Resolution (dpi)</b>	500 dpi, 256 greylevel
<b>Certification</b>	FIPS PIV IQS / ISO19794-4, MINEX & FIPS 201 complaint, STQC
<b>Format Extraction</b>	ISO 19797-2/4, WSQ, ANSI 378, etc.
<b>Fake Finger Detection</b>	Latex, Gelatin, Plasticine, Kapton, Transparent Film, Silicone, Rubber, Play-doh, Graphite Or Paper
<b>Security</b>	FPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.

Android 8.1	
<b>Operating System</b>	Android 8.1; SafeUEM supported
<b>CPU</b>	Cortex-A53 2.5 GHz Octa-core
<b>RAM+ROM</b>	3 GB + 32 GB / 4 GB + 64 GB (optional)
<b>Expansion</b>	Supports up to 128 GB Micro SD card

Android 11	
<b>Operating System</b>	Android 8.1; SafeUEM supported
<b>CPU</b>	Cortex-A53 2.5 GHz Octa-core
<b>RAM+ROM</b>	3 GB + 32 GB / 4 GB + 64 GB (optional)
<b>Expansion</b>	Supports up to 128 GB Micro SD card

Developing Environment	
<b>SDK</b>	Chainway Software Development Kit
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

User Environment	
<b>Operating Temp.</b>	-20°C to 50°C
<b>Storage Temp.</b>	-40°C to 70°C
<b>Humidity</b>	5%RH - 95%RH non condensing
<b>Drop Specification</b>	Multiple 1.8m drops (at least 20 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m falls at room temperature
<b>Sealing</b>	IP65-IP67 per IEC sealing specifications
<b>ESD</b>	±15KV air discharge, ±6KV conductive discharge

Camera	
<b>Rear Camera</b>	13MP Autofocus with flash
<b>Front Camera (Optional)</b>	5MP

Barcode Scanning (Optional)	
<b>2D Imager Scan Engine</b>	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
<b>1D Symbolologies</b>	UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSS, etc.
<b>2D Symbolologies</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.

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TechSigno Srl  
Via dei Boschi, 2/13 - 33040 Pradamano (UD) - ITALY  
T. +39 0432 603604 @ info@techsigno.com