

C71

Mobile Computer Capacitive Fingerprint



C71 is an Android rugged mobile computer. As a replacement of C70E, it is improved to enable capacitive fingerprint sensor TCS1. C71 is revolutionized to be FIPS 201 compliant, and enable secure data encryption and fake finger detection. With its powerful quad-core processor and wireless connections such as 4G, Bluetooth and Wi-Fi, capacitive fingerprint scanner, 1D/2D barcoding as well as other data capture options, including iris recognition and HF RFID/NFC, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity. C71 with abundant functions can best satisfy your different industrial needs.



Most Powerful Application Performance

C71 prides itself on Android 6.0 OS, quad-core processor, and 2GB of RAM, 16GB of ROM, plus 32GB SD card expansion.



Multiple Data Capture Options

C71 features class-leading 1D/2D barcode scanning, optional HF RFID/NFC and Iris recognition.



4G LTE — Faster Connectivity

With fast and stable 4G, Wi-Fi, Bluetooth connectivity, C71 will never interrupt your work both indoors and outdoors.



Rugged and Compact

With IP67 sealing, workers can still expect reliable performance when they drop it to the concrete carelessly, use it in dusty areas, or even get it wet.



Large Screen & Powerful Battery

It adopts 5.2" high-resolution IPS screen. It also supports operation with wet hands or gloves. 5000mAh battery allows a full day's non-stop work.



Capacitive Fingerprint Sensor

C71 can be configured with Crossmatch capacitive TCS1/TCS2 fingerprint module. Running powerful algorithms, they are FIPS 201, STQC compliant with multiple template formats available and capable of fake fingerprint detection. It is also small in size, durable, low-power-consumption and immune to sunlight. All make it to effortlessly capture a clear excellent image of the ridges and valleys of fingers, whether the finger is wet, dry or damaged, or the fingerprint is shallow. C71 can be widely used in security and access control, time & attendance, population census, national election etc.



Multiple Security Principles

Symmetric and asymmetric keys, random key generator, image and template encryption, and secure channel encryption are available to ensure the communication between C71 and distant / cloud server are protected. Enterprise administrator can easily control right of root or installing some software applications via authorization strategy or other MDM options.



Fingerprint



1D Barcode



2D Barcode



IRIS



RFID



NFC



4G



WiFi



Bluetooth



GPS



Camera

Physical Characteristics

Dimensions	164.2*78.8*17.5mm/6.46*3.10*0.69in (the thickest: 24.5mm/0.96in)
Weight	230-260g/8.11-9.17oz (dependent)
Display	5.2" IPS FHD 1920x1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Power	Main battery: Li-ion, rechargeable, 5000mAh
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB 2.0 Type-C, OTG
Audio	speaker, 2 microphones
Keypad	4 front buttons, 1 side button, 2 scan keys, 1 multifunctional key
Sensors	Gravity sensor, Light Sensor, Proximity Sensor, Vibration Motor

Performance

CPU	Cortex-A53 Quad-core 1.3GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 32 GB Micro SD card

Developing Environment

Operating System	Android 6.0
SDK	Software Development Kit (capacitive fingerprint based on crossmatch SDK)
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	14°F to 122°F / -10°C to 50°C
Storage Temp.	-40°F to 158°F / -40°C to 70°C
Humidity	5%RH - 95%RH non condensing
Drop Specification	Multiple 1.8m/5.9ft drops (at least 20 times) to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m/1.6ft falls at room temperature
Sealing	IP67
ESD	±8KV air discharge, ±4KV conductive discharge

Communication

WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN(Europe)	2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B1, B3, B5, B7, B8, B20, B40
WWAN(America)	2G: 850/900/1800/1900MHz 3G: 850/900/1700/1900MHz 4G: B2, B4, B7, B12, B17
WWAN (China)	2G: 900/1800MHz 3G: 900/2100MHz 4G: B1, B3, B5, B38, B39, B40, B41
WWAN (Others)	Depending on the country's ISP
Bluetooth	Bluetooth 4.0, BLE
GNSS	GPS/AGPS, GLONASS, BeiDou; internal antenna

Data Collection

Fingerprint

Sensor	TCS1/TCS2 Capacitive
Sensing Area (mm)	12.8x18; 10.4x14.4
Resolution (dpi)	508 dpi, 8-bit greyscale
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

Camera

Camera	13MP autofocus camera with flash
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Barcode Scanning

1D Linear Scanner	Honeywell N4313
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 Imager Scanner	Zebra SE4710/Zebra SE4750MR/Honeywell N6603, 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.

RFID (optional)

HF	
Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693
Chips	M1 card (S50/S70), M0 (Ultralight), M3 (Desfire D40/D41/D81), CPU_A card CPU_B card ICODE II, TI2048, LRI64K Others for customization
Range	3-8cm

Iris (optional)

Rate	<150ms
Range	20-40cm
FAR	1/10000000

NFC (optional)

Frequency	13.56MHz
Protocol	ISO/IEC 18092 (ECMA 340) ISO/IEC 21481 (ECMA 352)
Range	2-4cm

Notice: Product specifications are subject to change without notice. / Version: C71 V1.2.5 / Update Date: 2017-09-21

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