



## Fingerprint



# C71

## Mobile Computer Fingerprint



Android



4G



WiFi



Bluetooth



Fingerprint



1D Barcode



2D Barcode



IRIS



NFC



Camera



GPS

Chainway C71 is an Android rugged mobile computer. It is improved to enable capacitive fingerprint sensor TCS1/TCS2 and optical sensor CBM-E3. C71 is revolutionized 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. C71 is ideal for population census and national election.



# Specification

## Performance

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

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
	2G: 900/1800 MHz
	3G: WCDMA: B1,B8
<b>WWAN (China)</b>	CDMA2000 EVDO: BC0
	TD-SCDMA: B34,B39
	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
<b>WWAN (Europe)</b>	2G: 850/900/1800/1900MHz
	3G: B1,B2,B4,B5,B8
	4G: B1,B3,B5,B7,B8,B20,B40
<b>WWAN(America)</b>	2G: 850/900/1800/1900 MHz
	3G: B1,B2,B4,B5,B8
	4G: B2,B4,B7,B12,B17,B25,B66
<b>WWAN (Others)</b>	Depending on the country's ISP
<b>Bluetooth</b>	Bluetooth v2.1+EDR,3.0+HS,v4.1+HS
<b>GNSS</b>	GPS/AGPS, GLONASS, BeiDou; internal antenna

## Physical Characteristics

<b>Dimensions</b>	164.2 x 78.8 x 17.5 mm / 6.46 x 3.1 x 0.69 in.; (Capacitive the thickest: 24.5 mm / 0.96 in. ); (Optical the thickest: 31.5 mm / 1.24 in.)
<b>Weight</b>	< 314 g / 11.08 oz.
<b>Display</b>	5.2" IPS FHD 1920 x 1080
<b>Touch Panel</b>	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
<b>Power</b>	Main battery: Li-ion, rechargeable, 5000 mAh Standby: over 350 hours Continuous use: over 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor and USB cable)
<b>Expansion Slot</b>	1 slot for SIM card, 1 slot for SIM or TF card
<b>Interfaces</b>	USB 2.0 Type-C, OTG, TypeC headphones supported
<b>Audio</b>	Speaker, 2 microphones
<b>Keypad</b>	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
<b>Sensors</b>	Gravity sensor, light sensor, proximity sensor, vibration motor

## 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>	-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 / 5.9 ft. drops (at least 20 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5 m / 1.64 ft. falls at room temperature
<b>Sealing</b>	IP65 per IEC sealing specifications
<b>ESD</b>	±15 KV air discharge, ±6 KV conductive discharge

## Data Collection

### Fingerprint

#### Option 1

<b>Sensor</b>	TCS1/TCS2 Capacitive
<b>Sensing Area (mm)</b>	12.8 × 18.0 ; 10.4 x 14.4
<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

#### Option 2

<b>Sensor</b>	Optical Morpho CBM-E3
<b>Sensing Area (mm)</b>	14 x 22
<b>Resolution (dpi)</b>	500 dpi, 256 greylevel
<b>Certifications</b>	FIPS PIV IQS / ISO 19794-4, MINEX & FIPS 201 compliant, STQC
<b>Format Extraction</b>	ISO 19794-2/4, 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>	FIPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.

### Camera

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

### 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>1D Linear Scanner</b>	Zebra: SE965; Honeywell: N4313
<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 Imager Scanner</b>	Zebra: SE4710 / SE2707; Honeywell: N6603
<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.

### Iris (optional)

<b>Rate</b>	< 150 ms
<b>Range</b>	20-40 cm
<b>FAR</b>	1/10000000
<b>Protocol</b>	ISO/IEC 19794-6, GB/T 20979-2007

\*Iris is alternative to front camera.

## Accessories

<b>Standard</b>	AC Adaptor, USB Cable, Lanyard, etc.
<b>Optional</b>	Cradle, Holster, etc.

\* For detailed specification, please check Accessory Guide.

Notice: Product specifications are subject to change without prior notice. / Model: C71 Fingerprint / Update Date: 2019-11-11

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