

## C71 Mobile Computer Optical Fingerprint



Chainway C71 is an Android rugged mobile computer. As a replacement of C70E, it is improved to enable optical fingerprint sensor CBM-E3. C71 is revolutionized to be FIPS 201 compliant, and enable secure data encryption and fake finger detection. With its powerful Octa-core processor and wireless connections such as 4G, Bluetooth and Wi-Fi, fingerprint scanner, barcoding and 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

Chainway C71 prides itself on Android 8.1 OS, Octa-core processor, and 3GB of RAM, 32GB of ROM, plus 128GB SD card expansion.



### Multiple Data Capture Options

C71 features class-leading 1D/2D barcode scanning and NFC.



### 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 IP65/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.



### Optical Fingerprint Sensor

C71 can be configured with Optical Morpho CBM-E3 fingerprint module. Running powerful algorithms, it is FIPS 201 PIV, MINEX and STQC compliant with multiple template formats available and capable of fake fingerprint detection. It is also small in size, durable, immune to sunlight and resistant to electrostatic discharges, scratches and shocks. All make it to effortlessly capture a clear excellent image of the ridges and valleys of fingers.



### 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.

#### About Chainway

As a leading "Internet of Things" company in China, Shenzhen Chainway Information Technology Co., Ltd is a professional provider of products and solutions of RFID and barcode technology. Founded in 2005, Chainway, a high-tech enterprise, has won several times the title of the Best Provider of RFID Readers. Thousands of clients from over 100 countries have experienced our products in retail, logistics, transportation, healthcare, finance, security and manufacturing, etc. Through our nationwide offices, overseas subsidiary and an extensive partner network, we aim to provide high quality service to our clients.



## Physical Characteristics

<b>Dimensions</b>	164.2*78.8*17.5mm/6.46*3.10*0.69in; ( the thickest: 31.5mm/1.24in)
<b>Weight</b>	<314g/11.08oz
<b>Display</b>	5.2" IPS FHD 1920x1080
<b>Touch Panel</b>	Corning Gorilla Glass 3, multi-touch panel, gloves and wet hands supported
<b>Power</b>	Main battery: Li-ion, rechargeable, 5000mAh 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

## Performance

<b>CPU</b>	Cortex-A53 Octa-core 2.5GHz
<b>RAM+ROM</b>	3GB + 32GB
<b>Expansion</b>	Supports up to 128 GB Micro SD card

## Developing Environment

<b>Operating System</b>	Android 8.1
<b>SDK</b>	Chainway Development Kit (based on Morpho SDK)
<b>Language</b>	Java
<b>Tool</b>	Eclipse / Android Studio

## User Environment

<b>Operating Temp.</b>	14°F to 122°F / -10°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 1.8m/5.9ft drops (at least 20 times) to the concrete across the operating temperature range
<b>Tumble Specification</b>	1000 x 0.5m/1.6ft falls at room temperature
<b>Sealing</b>	IP65/IP67 dependent
<b>ESD</b>	±15KV air discharge, ±6KV conductive discharge

## Communication

<b>WLAN</b>	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
<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: 850/900/1800/1900MHz 3G: B1,B2,B4,B5,B8 4G: B2,B4,B7,B12,B17,B25,B66

<b>WWAN (China)</b>	2G: 900/1800MHz 3G: WCDMA: B1,B8 CDMA2000 EVDO: BC0 TD-SCDMA: B34,B39 4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
<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

## Data Collection

### Fingerprint

<b>Sensor</b>	Optical Morpho CBM-E3
<b>Sensing Area (mm)</b>	14x22
<b>Resolution (dpi)</b>	500 dpi, 256 greylevel
<b>Certifications</b>	FIPS PIV IQS / ISO 19794-4, MINEX & FIPS 201 complaint, STQC
<b>Format Extraction</b>	ISO 19794-2/4, WSQ, ANSI 378, etc.
<b>Security</b>	FIPS 140-2 level 2, multiple security methods available, including image and templates encryption, template signature, secure tunneling, etc.

### Camera

<b>Camera</b>	13MP autofocus camera with flash
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### Barcode Scanning

<b>1D Linear Scanner</b>	Zebra SE965 / Honeywell N4313
<b>1D Symbolologies</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
<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.

### 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>	2-4cm

Notice: Product specifications are subject to change without notice. / Model: C71 / Update Date: 2019-11-07

