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## Mobile Computer

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|--|--|--|--|---|---|--|
| <br>Android | <br>4G  | <br>WiFi     | <br>Bluetooth | <br>1D Barcode | <br>2D Barcode | <br>Fingerprint |
| <br>PSAM    | <br>UHF | <br>Infrared | <br>IRIS      | <br>NFC/HF     | <br>Camera     | <br>GPS         |

Chainway C71 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.



# Specification

## Performance

Quad-core	
CPU	Cortex-A53 Quad-core 1.45GHz
RAM+ROM	2GB+16GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 6.0

Octa-core	
CPU	Cortex-A53 Octa-core 2.5GHz
RAM+ROM	3GB+32GB
Expansion	Supports up to 128 GB Micro SD card
Operating System	Android 8.1

## Communication

Quad-core	
WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: 900/1800MHz
	3G: 900/1900/2000/2100MHz
	4G: B1, B3, B5, B38, B39, B40, B41
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 (Others)	Depending on the country's ISP
Bluetooth	Bluetooth 4.0, BLE
GNSS	GPS/AGPS, GLONASS, BeiDou, internal antenna

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

## Physical Characteristics

Dimensions	164.2*78.8*17mm/6.46*3.10*0.67in (for standard version)
Weight	<288g/10.15oz (for standard version)
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, built-in 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)
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card, three choice two
Interfaces	USB 2.0 Type-C, OTG, Octa-core version supports TypeC headphones
Audio	Speaker, 2 microphones
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multifunctional key
Sensors	Gravity sensor, light sensor, proximity sensor, vibration motor

## Developing Environment

SDK	Chainway Software Development Kit
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Language	Java
Tool	Eclipse / Android Studio

## User Environment

Operating Temp.	-4°F to 122°F / -20°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	IP65/IP67 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

## Data Collection

Camera	
Rear Camera	13MP Autofocus with flash
Front Camera (optional)	5MP camera

Barcode Scanning (optional)	
1D Linear Scanner (Quad-core)	Zebra SE965 / Honeywell N4313
1D Symbolologies	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 (Quad-core)	Zebra: SE4710 / SE4750 / SE4750MR; Honeywell: N6603
2D Imager Scanner (Octa-core)	Zebra: SE2707
2D Symbolologies	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)	
Rate	<150ms
Range	20-40cm
FAR	1/10000000
Protocol	ISO/IEC 19794-6, GB/T 20979-2007

\*Iris is alternative to front camera.

HF (optional)	
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, T12048, LRI64K, Others for customization
Range	3-8cm

NFC (optional)	
Frequency	13.56MHz
Protocol	ISO14443A/B, ISO15693, NFC-IP1, NFC-IP2, etc.
Chips	M1 card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

UHF (optional)	
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz

\* For detailed specification, please check C71 UHF data sheet

InfraRed (optional)	
Frequency	38kHz

\* For detailed specification, please check C71 InfraRed data sheet

Fingerprint (optional)	
Sensor	Capacitive TCS1/TCS2; Optical Morpho CBM-E3

\* For detailed specification, please check C71 Fingerprint data sheet

PSAM (optional)	
Card slot	2 slots for PSAM cards
Protocol	ISO7816 T=0, T=1

Accessories	
Standard	AC Adaptor, USB Cable, Lanyard, etc.
Optional	Cradle, Holster, etc.

\* For detailed specification, please check Accessory Guide.

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

**CHAINWAY**<sup>®</sup>

Shenzhen Chainway Information Technology Co., Ltd

Address: 9F, Building2, Phase 2, Gaoxinqi Industrial Park, Liuxian 1st Rd., Bao'an District, Shenzhen, Guangdong 518102, China

Tel: 0086-755-23223316

Fax: 0086-755-23223310

Email: sales@chainway.cn

Web: <http://www.chainway.net>