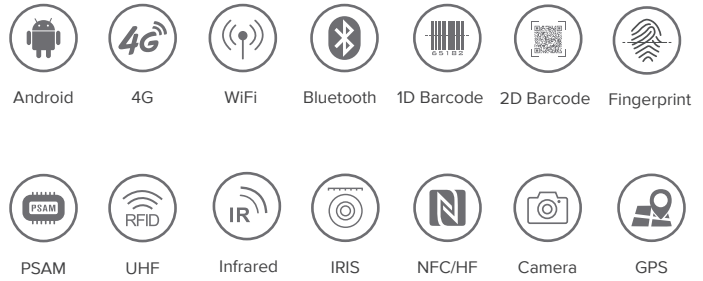




# C71

## Mobile Computer



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; Soti MobiControl, SafeUEM supported

### 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; Soti MobiControl, SafeUEM supported

## 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
WWAN (Europe)	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
	2G: 850/900/1800/1900MHz
	3G: B1,B2,B4,B5,B8
	4G: B1,B3,B5,B7,B8,B20,B40
WWAN(America)	2G: 850/900/1800/1900MHz
	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)
Expansion Slot	Charging time: 3-4 hours (with standard adaptor and USB cable)
	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
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\* For detailed specification, please check C71 UHF data sheet

### InfraRed (optional)

Frequency	38kHz
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\* For detailed specification, please check C71 InfraRed data sheet

### Fingerprint (optional)

Sensor	Capacitive TCS1/TCS2; Optical Morpho CBM-E3
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\* 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: 2019-09-09



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**UHF RFID**



# C71

## Mobile Computer UHF RFID



Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



IRIS



NFC



Camera



GPS

Chainway C71 is an Android rugged mobile computer. It can be configured with internal UHF module with 1dBi circularly polarized antenna. With its powerful processor and wireless connections, you can find this easy-to-deploy device an exceptionally valuable helper to increase working efficiency and productivity in retail, logistics and healthcare.



# 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; Soti MobiControl, SafeUEM supported
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; Soti MobiControl, SafeUEM supported
Communication	
Quad-core	
WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
	2G: 900/1800MHz
WWAN (China)	3G: 900/1900/2000/2100MHz
	4G: B1, B3, B5, B38, B39, B40, B41
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WWAN(America)	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
	2G: 900/1800MHz
	3G: WCDMA: B1,B8
WWAN (China)	CDMA2000 EVDO: BC0
	TD-SCDMA: B34,B39
	4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
	2G: 850/900/1800/1900MHz
WWAN (Europe)	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)	Depending on the country's ISP
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*17.5mm/6.46*3.10*0.69in
Weight	<321g/11.32oz
Display	5.2" IPS FHD 1920x1080
Touch Panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
	Main battery: Li-ion, rechargeable, 5000mAh
	Standby: over 350 hours
Power	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

Interfaces	USB 2.0 Type-C, OTG, Octa-core version supports TypeC headphones
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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 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

## Data Collection

UHF RFID	
Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (1dBi)
Power	1W (+19dBm to +30dBm adjustable)
R/W range	3m

\* Ranges and rates depend on tags and environment

## Camera

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

## NFC

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

## 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

## 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 UHF / Update Date: 2019-09-09



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