C71

RUGGED-iT

UHF RFID

C71

Mobile Computer

UHF RFID

Android | 4G | WiFi | Bluetooth | UHF | 1DBarcode

2D Barcode | IRIS | NFC | Camera | GPS

Chainway C71is 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	IEEE802.11a/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	IEEE802.11a/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
WWAN(America)	2G: 850/900/1800/1900MHz
	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
Power	Main battery: Li-ion, rechargeable, 5000mAh
	Standby: over 350 hours
	Continuous use: over 12hours (depending on user environment)
	Charging time: 3-4 hours (with standard adaptor and USB cable)
Expansion Slot	1slot for SIM card, 1slot for SIM or TF card
Interfaces	USB 2.0 Type-C, OTG,Octa-core version supports TypeC headphones
Audio	Speaker, 2 microphones
Keypad	4 front keys, 1power key, 2 scan keys, 1multifunctional key
Sensors	Gravity sensor, light sensor, proximity sensor, vibration motor

Developing Environment

SDK	Chainway Development Kit
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 per IEC sealing specifications
ESD	±15KV air discharge, ±6KV conductive discharge

Data Collection

UHF RFID

Frequency	865MHz-868MHz / 920-925MHz / 902-928MHz
Protocol	EPC C1GEN2 / ISO18000-6C
Antenna	Circular polarization (1dBi)
Power	0.4W(+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	M1card (S50, S70), CPU card, NFC tags, etc.
Range	2-4cm

Barcode Scanning (optional)

1D Linear Scanner (Quad-core)	Zebra SE965 / 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 (Quad-core)	Zebra: SE4710/ SE4750 / SE4750MR; Honeywell: N6603
2D Imager Scanner (Octa-core)	Zebra: SE2707
2D Symbologies	PDF417,MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QRcode, Micro QRcode, 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/IEC19794-6□GB/T 20979-2007

Accessories

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

* For detailed specification, please check Accessory Guide.

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