# C71

## Mobile Computer

| | | | | | | |
|---|---|---|---|---|---|---|
| Android | 4G | WiFi | Bluetooth | 1D Barcode | 2D Barcode | Fingerprint |
| PSAM | UHF | Infrared | IRIS | NFC/HF | Camera | 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<br>3G: 900/1900/2000/2100MHz<br>4G: B1, B3, B5, B38, B39, B40, B41 |
| **WWAN(Europe)** | 2G: 850/900/1800/1900MHz<br>3G: 850/900/1900/2100MHz<br>4G: B1, B3, B5, B7, B8, B20, B40 |
| **WWAN(America)** | 2G: 850/900/1800/1900MHz<br>3G: 850/900/1700/1900MHz<br>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<br>3G: WCDMA: B1,B8<br>   CDMA2000 EVDO: BC0<br>   TD-SCDMA: B34,B39<br>4G: B1,B3,B5,B8,B34,B38,B39,B40,B41 |
| **WWAN (Europe)** | 2G: 850/900/1800/1900MHz<br>3G: B1,B2,B4,B5,B8<br>4G: B1,B3,B5,B7,B8,B20,B40 |
| **WWAN(America)** | 2G: 850/900/1800/1900MHz<br>3G: B1,B2,B4,B5,B8<br>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*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<br>Standby: over 350 hours<br>Continuous use: over 12 hours (depending on user environment)<br>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 |
| **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 |
| **Language** | Java |
| **Tool** | Eclipse / Android Studio |

## User Environment

| | |
|---|---|
| **Operating Temp.** | -4℉ to 122℉ / -20℃ to 50℃ |
| **Storage Temp.** | -40℉ to 158℉ / -40℃ to 70℃ |
| **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 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, 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, TI2048, 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.