













C70

Thermometry Mobile Data Terminal

- 
Android
- 
4G
- 
WiFi
- 
Bluetooth
- 
1D Barcode
- 
2D Barcode
- 
IRIS
- 
NFC
- 
Camera
- 
GPS

Chainway C70 is a high-performance intelligent handheld terminal which designed for temperature measurement. It is developed based on Android system, with high-performance processor, first-class configuration and fast operation, this device can be widely used in multiple temperature measurement scenarios. Temperature measurement module on top is more convenient for the user to operate, and helps the user to quickly realize information management and improve work efficiency.



Specification

Performance

| | |
|------------------|--|
| CPU | Cortex-A53 2.5 / 2.3 GHz Octa-core |
| RAM+ROM | 3GB+32GB / 4GB+64GB |
| Expansion | Supports up to 128 GB Micro SD card |
| Operating System | Android 8.1 / 11.0; GMS, Soti MobiControl, SafeUEM supported |

Communication

Android 8.1

| | |
|---------------|--|
| WLAN | IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna |
| | 2G: 900/1800 MHz |
| | 3G: WCDMA: B1,B8 |
| WWAN (China) | CDMA2000 EVDO: BC0 TD-SCDMA: B34,B39 |
| | 4G: B1,B3,B5,B8,B34,B38,B39,B40,B41 |
| | 2G: 850/900/1800/1900 MHz |
| WWAN (Europe) | 3G: B1,B2,B4,B5,B8 |
| | 4G: B1,B3,B5,B7,B8,B20,B40 |
| | 2G: 850/900/1800/1900 MHz |
| 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 |

Android 11.0

| | |
|-----------|--|
| WLAN | IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna |
| | 2G: GSM850/GSM900/DCS1800/PCS1900 |
| | 3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 TD-SCDMA: A/F |
| WWAN | 4G: B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41 |
| Bluetooth | Bluetooth 5.0 |
| GNSS | GPS/AGPS, GLONASS, BeiDou; internal antenna |

Physical Characteristics

| | |
|----------------|--|
| Dimensions | 163.8 x 79.2 x 13.8 mm / 6.45 x 3.12 x 0.54 in. |
| Weight | 242g / 8.5oz. |
| Display | 5.2" IPS FHD 1920 x 1080 |
| Touch Panel | Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported |
| Expansion Slot | 1 slot for Nano SIM card, 1 slot for Nano SIM or TF card |
| Interfaces | USB2.0 Type-C, OTG, supports TypeC headphones |
| Audio | Speaker, 2 microphones |
| Keypad | 4 front keys, 1 power key, 2 scan keys, 1 multifunctional key |
| | Main battery: Li-ion, rechargeable, 4000mAh |
| | Standby: over 300 hours |
| Power | Continuous use: over 12 hours (depending on user environment) |
| | Charging time: 2-3 hours (with standard adaptor and USB cable) |
| Sensors | Gravity sensor, Light Sensor, Proximity sensor, Vibration motor |

Developing Environment

| | |
|----------|--------------------------|
| SDK | Software 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 / IP67 per IEC sealing specifications |
| ESD | ±15KV air discharge, ±6KV conductive discharge |

Data Collection

Temperature Collection

| | |
|------------------|--|
| Measure Position | Human forehead / Object surface |
| Measure Method | Non-contact / Infrared |
| Measure Distance | 1 - 3 cm |
| Measure Range | Human forehead: 32°C to 42.9°C; Object surface: -40°C to 115°C; |
| Measure Accuracy | Human forehead: ±0.2°C; Object surface: ±0.5°C; |
| Measure Duration | 1 sec |
| Spectral Range | 5.5 -15 μm |
| Resolution | 0.02°C |

*The infrared module has 80 degrees limitation, the best measure angle should be in this range.

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)

| | |
|-------------------|---|
| 2D Imager Scanner | Zebra SE4710 / Honeywell N6603 |
| 1D Symbolologies | UPC/EAN, Code128, Code39, Code93, Code11, Codabar, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, MSI, RSS, etc. |
| 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 | < 150 ms |
| Range | 20-40 cm |
| FAR | 1/10000000 |
| Protocol | ISO/IEC 19794-6, GB/T 20979-2007 |

*Iris is alternative to front camera.

Accessories(See details in Accessory Guide)



AC Adaptor



USB Cable



Sim Tray Ejector



Lanyard



Cradle (Optional)



Holster(Optional)

Notice: Product specifications are subject to change without prior notice. / Model: C70 / Update Date: 2021-11-01



Ingeniería Electrónica

Official Distributor and Technical Repair Center

Phone: +34 932 080 258

email: info@fqingenieria.com

www.fqingenieria.com

