

C71

Mobile Terminal

Android · 4G · Wi-Fi · Bluetooth · Barcode 1D · Barcode 2D · Fingerprint Reader

PSAM · UHF · Infrared · NFC/HF · Camera · GPS

The feature-rich C71 is a rugged Android mobile terminal. With its powerful processor, stable wireless connections and comprehensive data capture options, this easy-to-deploy device is a valuable tool for boosting productivity in logistics, warehousing, retail, identity verification, meter reading, IC card reading and more.







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Specifications

Performance

CPU	Cortex-A53 2.3 GHz, Octa-core
RAM+ROM	3 GB + 32 GB / 4 GB + 64 GB (optional)
Expansion	Supports up to 256GB Micro SD (TF) card
Operating system	Android 11; supports GMS, FOTA, Soti MobiControl, SafeUEM. Committed support for future upgrades to Android 12, 13 and Android 14 (subject to feasibility).

Communication

WLAN	IEEE802.11 a/b/g/n/ac, dual-band 2.4G/5G, internal antenna
WWLAN	2G: GSM850/GSM900/DCS1800/PCS1900
	G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 TD-SCDMA: A/F
	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	164.2 x 78.8 x 17.0 mm / 6.46 x 3.1 x 0.67 in. (standard version)
Weight	288 g / 10.15 oz. (standard version)
Display	5.2" IPS LTPS 1920 x 1080
Touch panel	Corning Gorilla Glass, multi-touch panel, supports gloves and wet hands
Battery	Main battery: Li-ion, rechargeable, built-in 5000 mAh
	Standby: over 350 hours
	Continuous use: over 12 hours (depends on user environment)
	Charging time: 3-4 hours (with standard adapter and USB cable)
Expansion Slot	1 slot for Nano SIM card, 1 slot for Nano SIM or TF card
Interfaces	USB 2.0 Type-C, OTG, supports Type-C headphones
Sensors	Light sensor, proximity sensor, gravity sensor
Notifications	Sound, LED indicator, vibrator
Audio	2 microphones, 1 for noise cancellation; 1 speaker; receiver
Keypad	4 front keys, 1 power key, 2 scan keys, 1 multi-function key

Development Environment

SDK	Chainway 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 Spec.	Multiple 1.8 m / 5.91 ft drops (at least 20 times) to concrete across the operating temperature range
Tumble Spec.	1000 x 0.5 m / 1.64 ft tumbles at room temperature
Sealing	IP65 / IP67 per IEC sealing specifications
ESD	±15 KV air discharge, ±6 KV conductive discharge

Data Collection

Camera

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

Barcode Scanning (optional)

1D Linear Scanner	Zebra: SE965; Honeywell: N4313
1D Symbologies	PC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS, etc.
2D Imager	Zebra: SE4710 / SE4750SR / SE4750MR / SE4750DP; Honeywell: N6603; CM60
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.

HF (optional)

Frequency	13.56 MHz
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 customizable
Range	3-8 cm

NFC

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

UHF (optional)

Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz

*For detailed specifications, see the C71 UHF datasheet

Infrared (optional)

Frequency	38 kHz

*For detailed specifications, see the C71 Infrared datasheet

Fingerprint (optional)

Sensor	Capacitive TCS1, Optical Morpho CBM-E3

*For detailed specifications, see the C71 Fingerprint datasheet

PSAM (optional)

Card slots	2 PSAM card slots
Protocol	ISO7816 T=0, T=1

Accessories

Standard	AC adapter, USB cable, lanyard, etc.
Optional	Cradle, holster, etc.

*For detailed specifications, see the Accessories Guide

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