

Mobile computer - UHF RFID

EYC71

EYC71 is an industrial-grade rugged mobile computer with high extensibility. Built with Android 11 and cta-Core processor, it supports abundant optional functions, including barcoding, NFC, HF, UHF, iris/fingerprint recognition, PSAM and camera, etc. The excellent performance makes C71 ideally deployed in logistics, retail, warehousing, healthcare, power, card, parking charge, government projects to help users quickly achieve informatization management and improve operational efficiency.


UHF RFID


Android



4G



WiFi



Bluetooth



UHF



1D Barcode



2D Barcode



IRIS



NFC



Camera



GPS

product SPECIFICATIONS

Performance

CPU	Cortex-A53 2.5 / 2.3GHz Octa-core
RAM+ROM	3GB + 32GB / 4GB + 64GB (optional)
Expansion	Supports up to 128GB Micro SD card
Operating System	Android 8.1 ; GMS, FOTA, Soti MobiControl, SafeUEM supported Android 11 ; GMS, FOTA, Soti MobiControl, SafeUEM supported Committed support for a future upgrade to Android 12, 13, and Android 14 pending feasibility



Communication

Android 8.1

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 4G: B1,B3,B5,B8,B34,B38,B39,B40,B41
WWAN (Europe)	2G: 850/900/1800/1900 MHz 3G: B1,B2,B4,B5,B8 4G: B1,B3,B5,B7,B8,B20,B40
WWAN(America)	2G: 850/900/1800/1900 MHz 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

WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, internal antenna
WWAN (China)	2G: GSM850/GSM900/DCS1800/PCS1900 3G: WCDMA: B1/B2/B4/B5/B8 CDMA2000 EVDO: BC0 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

Headquarter

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R&D / Product Plant

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www.easyrfid.it

Physical Characteristics

Dimensions	164.2 x 78.8 x 17.5 mm / 6.46 x 3.10 x 0.69 in.
Weight	321 g / 11.32 oz.
Display	5.2" IPS LTPS 1920 x 1080
Touch	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 12 hours (depending on user environment) Charging time: 3-4 hours (with standard adaptor 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, Type-C headphones supported
Sensors	Light sensor, proximity sensor, gravity sensor
Notification	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 multifunctional key

Developing Environment

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

Data Collection

UHF RFID

Engine	CM-Q module ; CM-3N module based on Impinj E310
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Protocol	EPC C1 GEN2 / ISO18000-6C
Antenna	Circular polarization (1.5 dBi)
Power	1 W (+19dBm to +30 dBm adjustable)
Max Read Range	Impinj E310 chip: 3m (Impinj MR6 tag, size 70 x 15mm) 3m (Impinj M750 tag, size 70 x 15mm) 4m (Alien H3 Anti-Metal tag, size 130 x 42mm)

* Ranges are measured in the open outdoors and low interference environment, and rate is measured in a laboratory low interference environment, they are affected by 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	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	Zebra: SE4710 / SE4750SR / SE4750MR / SE4750DP; Honeywell: N6603
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.

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