Technology Solutions for Retail



C5

RFID Handheld Reader

Android | 4G | Wi-Fi | Bluetooth | Barcode 1D | Barcode 2D | NFC | Fingerprint | UHF | PSAM | Camera | GPS

C5 is an enhanced, high-performance all-in-one UHF RFID reader. It integrates an in-house UHF module based on Impinj E Series chips, compatible with Impinj Gen2X, delivering industry-leading UHF performance. The C5's integrated design provides more stable UHF performance and greater durability. Its top-tier mobile computer configuration features the Android 11/13 platform, an octa-core processor, large optional internal memory and a high-capacity removable battery. The C5 also supports 2D scanning, NFC, fingerprint recognition and other functions, making it widely used in banking, public security, warehousing, retail, logistics and other industries.





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Specifications

Performance

CPU	Octa-core, 2.2GHz
RAM+ROM	3GB + 32GB / 4GB +64GB (Optional)
Expansion	Supports up to 256GB Micro SD (TF) card
Operating system	Android 11/13

Communication

WLAN	802.11 a / b / g / n / ac, 2.4G / 5G dual-band
WWAN	2G: GSM (B2 / B3 / B5 / B8)
	3G: WCDMA (B1 / B2 / B4 / B5 / B8) CDMA2000 ECDO: BC0
	4G: B1 / B2 / B3 / B4 / B5 / B7 / B8 / B12 / B17 / B20 / B28A / B28B / B38 / B39 / B40 / B41
Bluetooth	5.0
Vo-LTE	Support
GNSS	GPS / AGPS, GLONASS, BeiDou, Galileo

Physical Characteristics

Dimensions	178.8 x 96.5 x 128.4mm / 7.03 x 3.80 x 5.06in
Weight	626g / 22.08oz. (device with battery)
Display	5-inch (Fingerprint), 1280 x 720 / 6-inch, 2160 x 1080
Touch Panel	Multi-touch panel, gloves and wet hands supported; Corning Gorilla Glass
Battery	6700mAh / 13400mAh removable pistol battery
	Built in 100mAh backup battery, supporting battery hot swap
Card slots	2 slots for PSAM card (optional); 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
Audio	1 microphone; 1 speakers; 1 receiver
Notification	Sound, LED indicator, vibrator
Keypad	1 power key, 2 scan keys, 1 user-defined key, 2 volume keys (+/-)
Sensor	Gravity sensor, proximity sensor, light sensor, geomagnetic sensor (optional), gyroscope (optional)

Development Environment

SDK	Software Development Kit
Language	Java
Tool	Eclipse / Android Studio

User Environment

Operating Temp.	-20 °C to 50 °C / 4 °F to 122 °F
Storage Temp.	-40 °C to 70 °C / -40 °F to 158 °F
Humidity	5%RH to 95%RH (non condensing)
Drop spec.	Multiple 1.5 m / 4.9 ft drops to concrete across the operating temperature range
Tumble Specifications	1000 x 0.5 m / 1.64 ft tumbles at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge

Data Collection

Camera

Front camera	5MP
Rear camera	Rear 13MP Autofocus with flash

UHF

Impinj Gen2X	Supported
Protocol	EPCglobal Gen 2 (ISO18000-6C)
Frequency	865-868MHz / 920-925MHz/902-928MHz
Engine	Based on Impinj E Series chips
Output power	1W (30dBm, +5dBm to +30dBmadjustable)
	2W Optional (33dBm, for LatinAmerica,etc.)
Max Read Range	30m (Impinj MR6 tag, size 70x15mm) 32m (Impinj M750 tag, size 70x15mm) 33m (Alien H3 Anti-Metal tag,size130x42mm)
Fastest read rate	1300+ tags / sec (Circular Polarized)

* Ranges and rates depend on the tags and the environment.

Fingerprint (optional)

Sensor	TLK1NC02
Sensing area (mm)	14.0 X 22.0
Resolution (dpi)	508dpi, 256 greylevel
Certifications	FIPS 201, FBI
Template format	ISO19794, WSQ, ANSI 378, JPEG2000
Fake finger detection	Support by SDK
Security	AES, DES key encryption of the host communication channel

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

Barcode scanning (optional)

2D Scanner	CM60; Zebra: SE4710
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 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.

Accessories

USB cable, adapter, device charging cradle (optional), charging cradle for the pistol-grip battery (optional), etc.

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