



C5F

Handheld RFID Reader



Android



4G



Wi-Fi



Bluetooth



RFID



1D Barcode



2D Barcode



Camera



GPS

Chainway C5F is an upgraded all-in-one high-performance UHF RFID Reader. It Integrates a self-developed Impinj E Series chips based UHF module, supporting Impinj Gen2X, offering industry-leading UHF performance. C5F adopts an integrated design, provides more stable UHF performance, and delivers higher durability. The superior system configuration of the mobile computer features the Android 11 / 13 platform, octa-core processor, optional mass internal memory and a large capacity removable battery. C5F also supports 2D scanning, which enables it to be widely used in scenarios like banking, public security, warehousing, retail, logistics and other industries.



Specification

Performance

CPU	Octa-core, 2.2GHz
RAM+ROM	3GB + 32GB / 4GB +64GB (Optional)
Expansion	Supports up to 128GB 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 / 7.04 x 3.80 x 5.06in
Weight	598g
Display	6-inch, 1440 x 720
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 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
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

Developing 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 Specification	Multiple 1.5m / 4.9ft. drops to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64 ft. falls at room temperature
Sealing	IP65 per IEC sealing specifications
ESD	±15KV air discharge, ±8KV conductive discharge

Data Collection

Camera

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

UHF 1

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 +30dBm adjustable)
	2W Optional (33dBm, for Latin America, etc.)
Antenna	Circular polarization
Max Read Range	30m (Impinj MR6 tag, size 70 x 15mm)
	32m (Impinj M750 tag, size 70 x 15mm)
	33m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	1300+ tags / sec

* Ranges and rates depend on tags and environment

UHF 2

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 +30dBm adjustable)
	2W (33dBm, for Latin America, etc.)
Antenna	Circular polarization
Max Read Range	23m (Impinj MR6 tag, size 70 x 15mm)
	27m (Impinj M750 tag, size 70 x 15mm)
	28m (Alien H3 Anti-Metal tag, size 130 x 42mm)
Fastest Read Rate	550+ tags / sec

* Ranges and rates depend on tags and environment

Barcode Scanning (Optional)

2D Scanner	CB300T
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, etc.

Notice: Product specifications are subject to change without prior notice. / Model: C5F / Update Date: 2025-11-18

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