

AI-RF-FX-CLA1



AI-RF-FX-CLA1 is a new designed masterpiece – IOT smart UHF integrated RFID reader, which running with Impinj INDY R2000 /E710 high performance RFID chip, and operated on Android 9.0 operation system. Support the extension of an external antenna. 4GB RAM and 64G ROM capacity. Built-in WiFi, Bluetooth, 4G and other wireless communication functions with RJ45, RS485 and I/O communication interfaces, and POE optional.

Features

- Powered by Impinj R2000/E710 chipset for maximum tag detection performance.
- Android OS based open development environment.
- Support web management platform.
- Support MQTT provides real-time, reliable messaging services for connecting cloud servers.
- Support HTTP POST communication to send the tag data to the web URL directly.
- Support to send the tag data to the specified database directly.
- Kinds of communication interfaces: RJ45, RS485, Wiegand, USB, Bluetooth, 4G.
- Support RSSI, antenna detection, online update.
- RSSI & speed filters.

Specification

HARDWARE, OS AND FIRMWARE MANAGEMENT

Processor	MT6765, Octa-Core 2.3Ghz
Memory	Flash 64GB; DRAM 4GB
Operating System:	Android 9.0
Firmware Upgrade	Demo software / Web
API Support	Windows platform– .Net / .Net core / C++ / Java SDK Android platform – Java Linux platform – Java SDK

PHYSICAL CHARACTERISTICS

Dimensions	276mmx276mmx70mm
Weight	About 1.76kg (net weight)
Housing Material	Die-cast aluminum
Visual Status Indicators	Power/Status, Ant 1-2, WiFi, 4G, Bluetooth, hidden light strip

RFID CHARACTERISTICS

Air Protocols	ISO/IEC18000-6B, 6C / EPC C1Gen2 C2GEN2 optional CHN : 920MHz ~ 925MHz (CMII)
Frequency	USA: 902 MHz-928MHz (FCC part 15) EU: 865-868MHz (ETSI EN 302208)
Built-in antenna	Circular 9dBi, VSWR ≤ 1.2:1
Output Power:	0dBm-35dBm (±1dBm) adjustable (E710Version 0dbm-33dBm)
Channel bandwidth:	< 200KHz
Anti-collision	Support multi-tag / intensive inventory
Work Mode:	Fixed/hop frequency optional

CONNECTIVITY

	RJ45, RS-485, Wiegand 26/34/66 WiFi : 802.11 a/b/g/n/ac
Communications	4G : LTE-FDD (CAT-7) /LTE-TDD (CAT-7) /WCDMA/TD-SCDMA/ EVDO/CDMA/GSM Bluetooth : BT v2.1+EDR, 3.0+HS,v4.1+HS
General Purpose I/O	2 inputs(DC 0~24V), 2 relay outputs(DC_MAX:30V,2A; AC_MAX:125V,0.3A), optically isolated
Power supply	DC 24V/2.5A (DC 9V ~ 30V,60W) or POE(IEEE 802.3 at/bt)
Antenna Ports	1 Reverse Polarity TNC port; circular or linear polarization; near and far field compatible

ENVIRONMENTAL

Operating Temp.	-20 - +70°C
Storage Temp.	-40 - +85°C
Humidity	10-95% non-condensing (+25C°)
Sealing	IP65

Outline Dimensions

