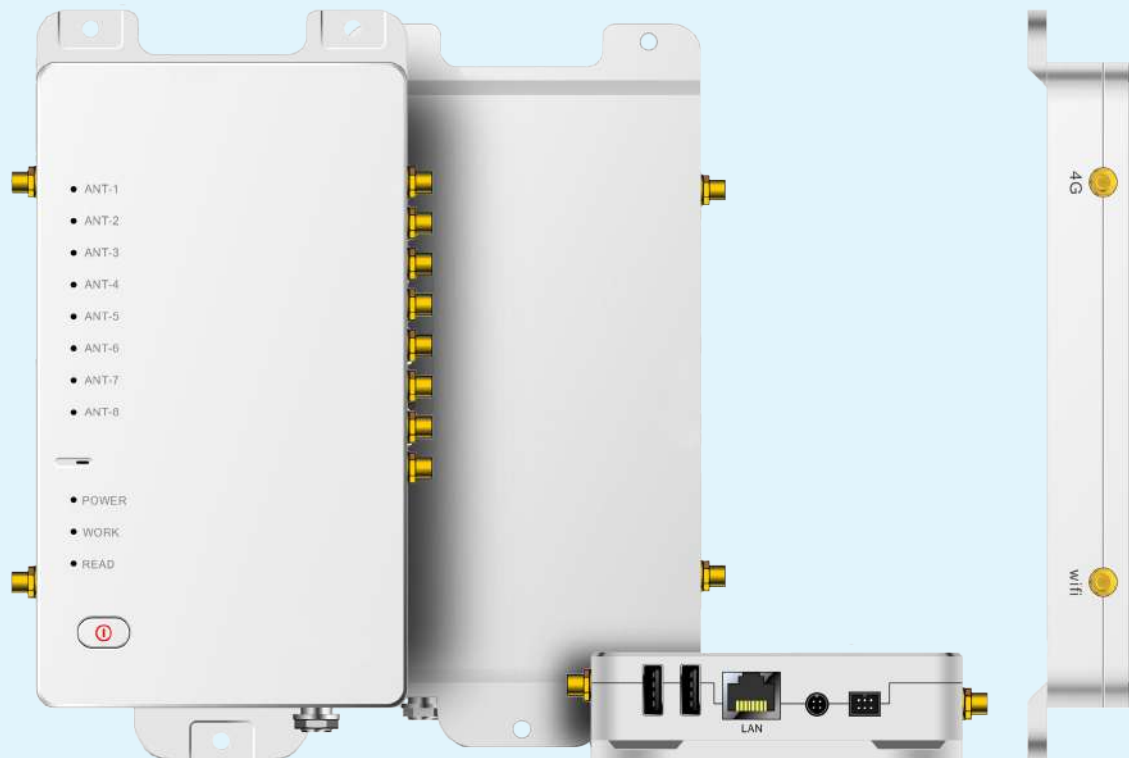
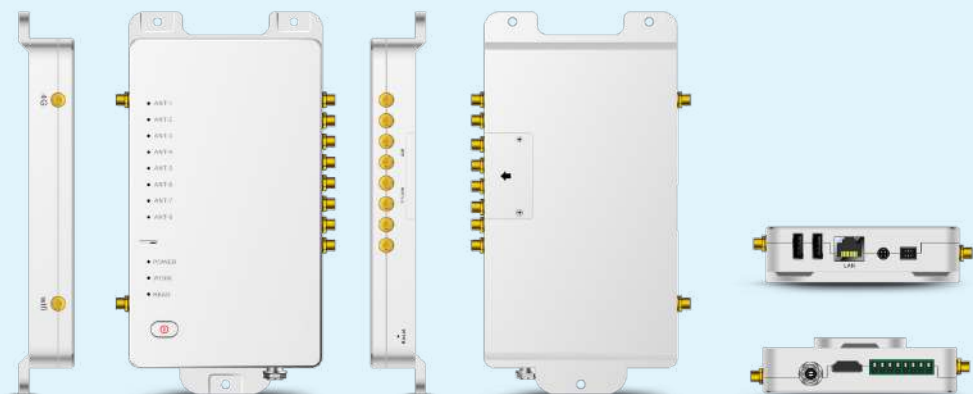


AI-RF-FX-A8



AI-RF-FX-A8 is an 8-channel fixed RFID reader, based on Android 9.0. Integrated with Impinj R2000 RFID chip, and soon will be available with E710 chip, it supports RS232, RJ45 and HDMI, and can be compatible with various types of antennas. With high stability and outstanding performance, AI-RF-FX-A8 can be ideally applied to warehouse management, archives and library management, bank, clothing and footwear retail, jewelry monitoring, watch industry, laundry, production line management, medical instrument cabinet and vending machines.



Specification

Physical Characteristics

Dimensions	162mm(L) x 95mm(W) x 22mm(H)
Weight	448 g / 15.80 oz. (without antenna)
Material	Aluminium alloy
Input Voltage	DC 10V – 24V
Standby Current	< 30mA
Work Current	800mA +/-5% @ DC 12V Input
Comm Interface	1*RS-232 , 1*RJ45, 2*USB2.0 Type A, USB Host
Display Interface	HDMI Type A, support 720P
GPIO	2 channel input optical coupling, 2 channel output optical coupling
Baud Rate	115200 bps
Cooling Mode	Air cooling
Power	DC (12V), POE (802.3af 13W), POE+ (802.3at 25.5W)

Performance

CPU	Qualcomm 1.8 GHz Octa-core
RAM+ROM	3 GB + 32 GB 2 GB + 16 GB (optional) 4 GB + 64 GB (optional)

Developing Environment

Operating System	Android 9.0
SDK	Chainway Software Development Kit
Language	Java
Tool	Eclipse/Android Studio

Communication

Ethernet interface	10/100 Base-T Ethernet (RJ45)
WLAN	Support 802.11 a/b/g/n/ac/d/e/h/i/k/r/v, 2.4G/5G dual-band, IPV4, IPV6; Fast roaming: PMKID caching, 802.11r, OKC; Operating Channels: 2.4G(channel 1~13), 5G(channel 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165), Depends on local regulations; Security and Encryption: WEP/WPA/WPA2-PSK(TKIP and AES), WAPI-PSK—EAP-TTLS, EAP-TLS, PEAP-MSCHAPv2, PEAP-LTS, PEAP-GTC, etc.

WWAN (Europe, Asia)	2G: B3/B5/B8 3G: CDMA EVDO: BCO TD-SCDMA: B34/B39 WCDMA: B1/B5/B8 4G: TDD-LTE: B38/B39/B40/B41 FDD-LTE: B1/B3/B5/B7/B8/B20
WWAN(America)	3G: B2/B4/B5 4G: B2/B4/B5/B7/B12/B13/B17/B28b

External antenna using SMA port

User Environment

Operating Temp.	-13°F to 149°F / -25 °C to 65 °C
Storage Temp.	-40°F to 185°F / -40 °C to 85 °C
Humidity	10%- 95%

UHF

Engine	CM2000-8 module based on Impinj Indy R2000; CM710-8 module based on Impinj E710 (coming soon)
Protocol	EPC global UHF Class 1 Gen 2 / ISO 18000-63
Frequency	865-868 MHz / 920-925 MHz / 902-928 MHz
Output Power	1W (30dBm, support +5~+30dBm adjustable, POE/DC power) 2W Optional (33dBm, support +10~+33dBm adjustable, POE+/DC power, for Latin America, etc.)
Output Power Precision	+/- 1dB
Output Power Flatness	+/- 0.2dB
Receive Sensitivity	< -84dBm
Fastest Read Rate	900+ tags/sec
RSSI	Supported
Ambient Temp Monitor	Supported
Antenna Detector	Supported
Antenna	Supporting a variety of antennas, such as 6dBic, 9dBic
Antenna Port	8 channel 50Ω SMA port