

AI-RF-FX-CL04 4-PORTS UHF RFID READER



AI-RF-FX-CL04 is Auto-ID newly designed UHF RFID reader with the best price/performance ratio. It adopts Impinj INDY R2000 high performance RFID chip, under the premise of meeting the high performance of RFID, which streamlines some uncommon functions to meet most of the RFID application scenarios.

Typical applications

- Logistics industry such as, warehouse inventory management, cargo transfer tracking, etc.
- Intelligent vehicle management e.g. vehicle inspection, customs clearance, etc.
- Anti-forgery identification.
- Production automation, parts flow management, etc.
- E-ticketing and identification of personnel cards, etc.
- Power patrol, asset access management, etc.

Features

- Powered by Impinj R2000 chipset for maximum tag detection performance.
- Kinds of communication interfaces: RJ45, RS232
- Industrial, installation-friendly I/O connector
- Support RSSI, antenna detection, online update
- RSSI & speed filters



Specifications

SDK AND FIRMWARE MANAGEMENT

Firmware Upgrade Demo software

Windows platform— .Net / .Net core / C++ / Java SDK

API Support Android platform - Java

Linux platform - Java SDK

PHYSICAL CHARACTERISTICS

Dimensions 170mm×120mm×25mm

Weight 0.5Kg

Housing Material Milling aluminum
Visual Status Indicators Power/Status

RFID CHARACTERISTICS

Air Protocols ISO/IEC18000-6B, 6C / EPC C1Gen2

CHN: 920MHz ~ 925MHz (CMII)

Frequency USA: 902 MHz-928MHz (FCC part 15)

EU: 865MHz ~ 868MHz (ETSI EN 302208)

Output Power OdBm-33dBm (±1dBm) adjustable

Channel bandwidth < 200KHz

Frequency stability ≤±10ppm

Peak Inventory Speed > 400 tags/sec

Receive sensitivity <-80dBm

Anti-collision Support multi-tag / intensive inventory

Work Mode: Fixed/hop frequency optional

CONNECTIVITY

Communications RJ45, RS-232

2 inputs(DC 0~24V), 2 outputs(DC_MAX:30V,2A; AC_MAX:125V,0.3A), General Purpose I/O

optically isolated (Terminal Block)

Power supply DC 24V/2.5A(Output power 30dBm, power consumption 8W)

4 / 8 SMA ports; circular or linear polarization; near and far field

Antenna Ports compatible

ENVIRONMENTAL

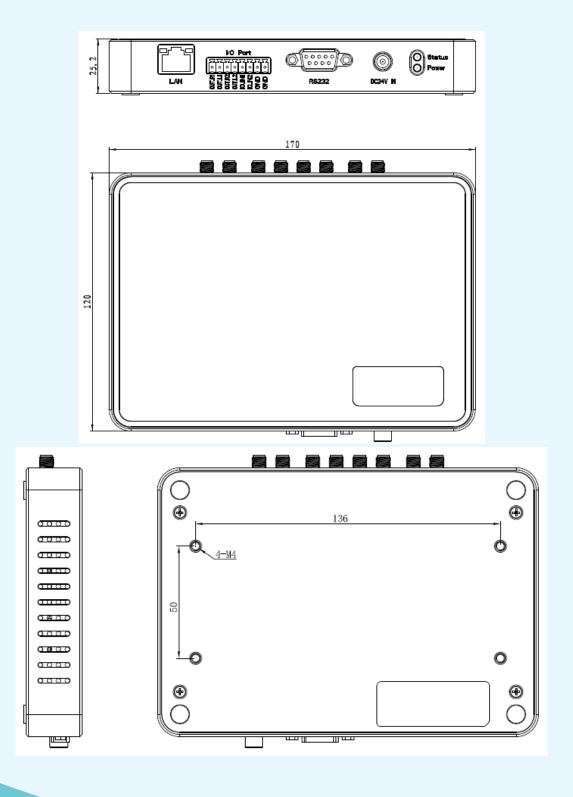
Operating Temp. $-20 - +70^{\circ}\text{C}$ Storage Temp. $-40 - +85^{\circ}\text{C}$

Humidity 5-95% non-condensing (+25°C)

Sealing IP53



Outline Dimensions



www.AiHardWare.com