

INVENGO XC-RF300

HF RFID READER DATASHEET











About Invengo's XC-RF300 HF RFID Reader

Invengo's XC-RF300 is a high-performance, high-power, long-distance HF reader that supports ISO/IEC18000-3M1 protocol. It is completely in-house designed with independent IP, using advanced digital signal processing technology, combined with highly efficient anti-collision algorithms, it achieves fast read/write processing while maintaining high tag inventory speed. XC-RF300 can be widely used in smart shelves, unmanned retail, logistics, personnel identification, conference check-in, access control, anti-counterfeit, production process control and many other IoT system applications.



Invengo – the global RFID technology provider – is a leading developer and manufacturer of high quality, intelligent RAIN RFID and HF/NFC connectivity solutions and consumables (tags & inlays) utilized in the Internet of Things. With a focus on RFID innovation, Invengo has created a leading product line in retail, (industrial) laundry, library, (public) transportation, healthcare, and many other industries.

Invengo Technology Pte. Ltd. (SG) is the International Headquarters of Invengo Information Technology Co. Ltd, listed on Shenzhen Stock Exchange (SZSE: 002161.SZ). Employing over 600 people globally, Invengo is one of the largest publicly traded, RFID / IoT oriented companies in the world.

Features

- Support ISO15693/ISO18000-3M1 protocol RFID label
- RF output power 0.5~5W adjustable
- 4 antenna ports with SMA connector, can be directly connected with a 50Ω standard HF RFID antenna, effective reading distance can reach more than 0.8m
- Advanced tag anti-collision processing algorithm, superior recognition rate
- Antenna status and device temperature monitoring
- Tag signal strength RSSI detection
- Built-in Linux operating system, manage and display tag data, reader status, configurations and firmware upgrade through the web app

Product Specifications

RF Specifications

Operating Frequency 13.56MHz ±7kHz

RF output power $0.5W \sim 5W$, $0.5 \sim 5W$ adjustable by

0.5W step

Antenna port 50Ω Modulation Mode ASK

Modulation Index 10% or 100%

Air-interface Protocol ISO15693/ISO18000-3M1

Support ISO15693/ISO18000-3M1

protocol RFID label

Anti-collision Capability ≥60tags/s

Reading Distanc Not less than 0.8m (affected by an-

tenna, label, working environment)

Interface Parameters

Power input DC+24V
Antenna port 4 port SMA
TCP/IP 10/100MHz

1x 10/100MHz Adaptive Ethernet

Serial port 1x RS485 IO 2x GPIO Multi-reader 1x sync port

synchronization

Expansion 1x counter board connection port

Physical Parameters

Dimension 223mm \times 166mm \times 36mm

Weight 0.8 kg(1.8 lbs.)
Shell material Aluminumy

Environmental Parameters

Operating temperature $0^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$

Power Supply DC24V, Power Consumption < 40W

EMC Standard compliance CE & FCC

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