

UHF RFID Eight-Channel Industrial Reader



ASAM-FRUH-GD05

Xi'an Aerospace Automation Co., Ltd



Summary

The ASAM-FRUH-GD05 UHF RFID industrial reader with eight-channel is a high-performance, wide-band and scalable UHF RFID device that complies with the EPC global C1 Gen2 / ISO 18000-6C protocol standard. The device possesses strong capability of single and multi-tag reading, RF output power is adjustable, the device supports RS232, RS485, Ethernet and other communication interfaces, and it possesses many features such as relay output control, optocoupler input, power indication, read status indicator.

Application

ASAM-FRUH-GD05 UHF RFID industrial reader with eight-channel can be used in production process control, vehicle management, logistics management, warehouse management, access control and many other applications.

Product characteristics

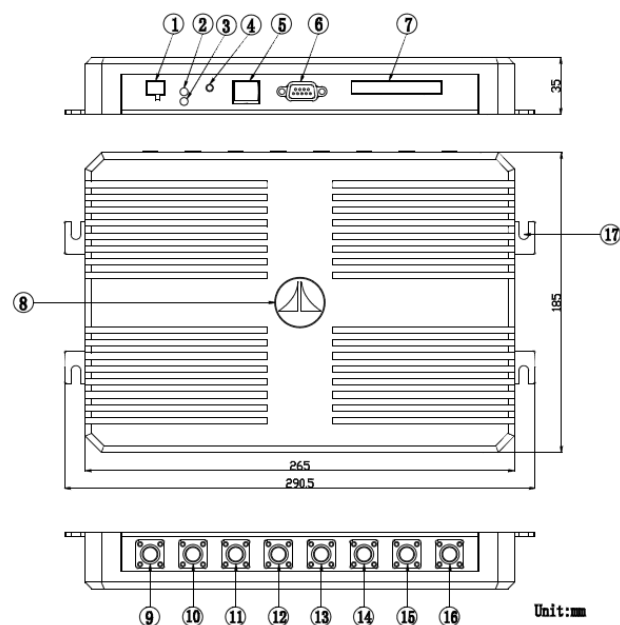
1. Agreement: Electronic tags conforming to EPC-CLASS1-G2 (ISO18000-6C) ISO18000-6B standards.
2. Working frequency 902-928MHz/865-868MHz (adjustable according to different countries or regions)
3. Supporting dynamic parameter adjustment (e.g. power adjustment, frequency adjustment, etc.)
4. Supporting digital input/output control interface, directly expanding other equipment
5. Read distance up to 20 meters (related to tag and RF output power)
6. Antenna number: 1-8 external antennas, 1-8 external antennas are optional
7. Supporting Standard Ethernet Port Communication and Serial Port Communication
8. Supporting multiple working modes (active mode, answer mode)
9. Output power up to 30 dBm (step 0.1 db, adjustable)
10. Working in a broad-spectrum frequency hopping (FHSS) or fixed-frequency transmission mode
11. Easily install and debug with special UHF configuration software
12. Low power design, DC 12V power supply

13. Protection level: IP54.

Technical parameter

- Type: ASAM-FRUH-GD05
- Transmission frequency: 902MHz-928MHz
- Complying with EPCglobal UHF Class1 Gen2/ISO18000-6C standard
- Read-write distance: The maximum reading distance can be up to 20 meters.
□ (related to antenna setting)
- Antenna number: 1-8 external antennas, 1-8 external antennas are optional
- RF power: 0dBm-30dBm, step 1 dB, adjustable.
- 4- channel relay control output, 2-channel optocoupler input function
- Communication interface: RS-232, RS-485, 10/100M Ethernet
- Power supply: DC 12V/3A power supply
- Multi-label/batch function: Support
- Working temperature: -20°C ~ +70°C
- Storage temperature: -30°C ~ +75°C
- Working humidity: 5 %~ 95% RH, no condensation
- Protection level: IP54
- Structure size: 290mm×185mm×35mm

Port and Size



1. Power interface
2. Power Indicator
3. Read status indicator
4. Reset button

5. Ethernet interface

6. RS232 interface

7. Terminals:

Including 4 relay output control interfaces, 2 optocoupler input interfaces, RS485 interface.

8. Trademark

9. External antenna interface 1

10. External antenna interface 2

11. External antenna interface 3

12. External antenna interface 4

13. External antenna interface 5

14. External antenna interface 6

15. External antenna interface 7

16. External antenna interface 8

17. Mounting holes

Packing list

Category	Number	Remarks
ASAM-FRUH-GDO5	1	Main Engine
Network Cable	1	Network Cable Length 1.5m
RS232 Serial Cable	1	Serial Cable Length 1.5m
12V/3A Power Adapter	1	Adapter Length 2m

Optional Accessories

category	number	Remarks
DI/DO cable	1	Optional length of DI/DO cable: 1.5m/3m/5m
RF cable	1~3	Optional length RF cable: 3m/5m/9m
ASAM-FRUH-TX01	1~8	High performance 6dB (circular polarized antenna)
ASAM-FRUH-TX02	1~8	High performance 8dB (circular polarized antenna)
RS232 Serial Cable	1	Serial Cable Length 1.5m

1. The product is limited to end user installation.

2. End user do not remove or install the product.

3. The product is use for Fixed Applications.

4.The product is professionally installed, The installer will be responsible for ensuring that the proper antenna is employed.

FCC WARNING STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.