



## Xi An Aerospace Automation ASAM-RFUH-EIC01 Edge Intelligent Controller User Manual

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#### Edge Intelligent Controller

ASAM-RFUH-EIC01

Xi'an Aerospace Automation Co., Ltd



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## Summary

The ASAM-RFUH-EIC01 Edge Intelligent Controller 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 has edge computing capability, possesses the 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 multi-features such as relay output control, optocoupler input, power indication, read status indicator.

## Application

The ASAM-RFUH-EIC01 Edge Intelligent Controller can be used in production process control, vehicle management, logistics management, warehouse management, access control and many other applications.

## Product characteristics

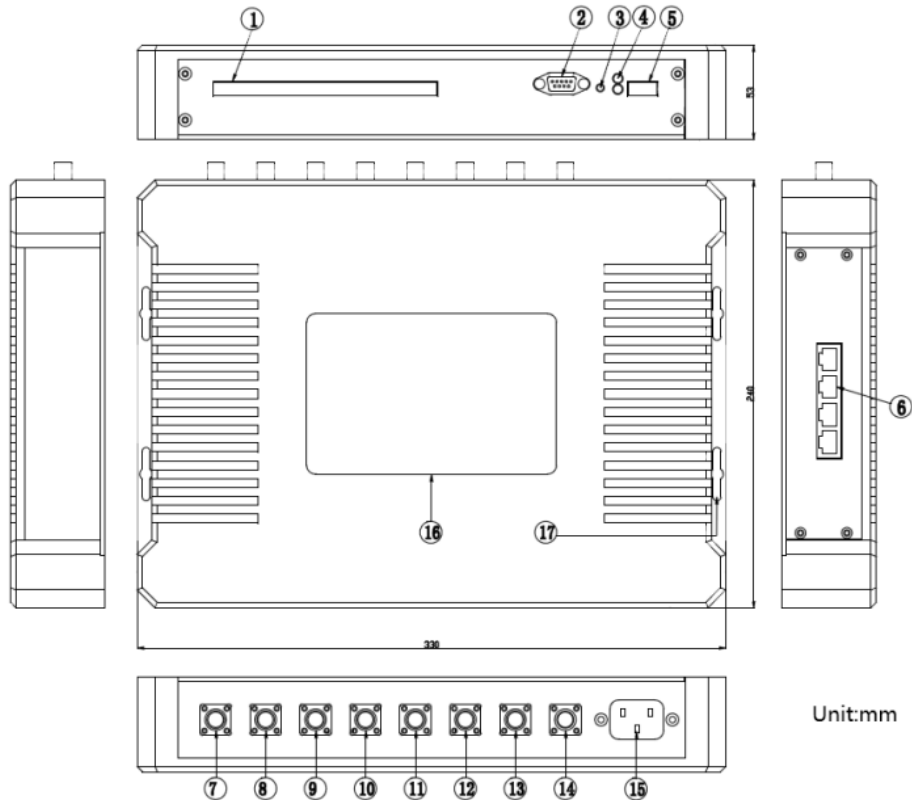
1. Agreement: Electronic tags conforming to EPC-CLASS1-G2 (ISO18000-6C) ISO18000-6B standards.
2. Working frequency 902-928MHz/865-868MHz (adjustable according to different countries or regions)
3. Supporting dynamic parameter adjustment (e.g. power adjustment, frequency adjustment, etc.)
4. Supporting digital input/output control interface, directly expanding other equipment
5. Read distance up to 10 meters (related to tag and RF output power)
6. Antenna number 1-8 external antennas
7. Supporting Standard Ethernet Port Communication and Serial Port Communication
8. Supporting multiple working modes (active mode, answer mode)
9. Working in a broad-spectrum frequency hopping (FHSS) or fixed-frequency transmission mode
10. Easily install and debug with special UHF configuration software
11. Protection level: IP54.

## Technical parameter

- Type: ASAM-RFUH-EIC01
- Transmission frequency: 902MHz-928MHz, 865-868MHz.
- Complying with EPC global UHF Class1 Gen2/ISO18000-6C standard
- Read-write distance: The maximum reading distance can be up to 10 meters. (related to antenna setting)
- Antenna number: 1-8 external antennas 8- channel relay control output, 8-channel optocoupler input function
- Communication interface: RS-232, RS-485, 10/100M
- Ethernet Power supply: AC100V-240V, 50-60Hz, 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: 330mm×240mm×53mm

## Port and Size



1. Terminals: Including 8 relay output control interfaces, 8 optocoupler input interfaces, RS485 interface.
2. RS232 interface
3. Reset button
4. Read status indicator
5. Output power interface
6. Ethernet interfaces
7. External antenna interface
8. External antenna interface
9. External antenna interface
10. External antenna interface
11. External antenna interface
12. External antenna interface
13. External antenna interface
14. External antenna interface
15. Input power interface
16. Trademark
17. Mounting holes

## Packing list

Category	Number	Remarks
ASAM-RFUH-EIC01	1	Main Engine
Network Cable	1	Network Cable Length 1.5m
RS232 Serial Cable	1	Serial Cable Length 1.5m
AC100V-240V Power Cable	1	Power Cable Length 1.5m

## 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-RFUH-TX01	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 does not remove or install the product.
3. The product is used for Fixed Applications.
4. The product is professionally installed installer will be responsible for ensuring that the proper antenna is employed.

## FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.


Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** 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.

### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

	<p><a href="#">Xi An Aerospace Automation ASAM-RFUH-EIC01 Edge Intelligent Controller</a> [pdf] User Manual</p> <p>EIC01, 2ATM2-EIC01, 2ATM2EIC01, ASAM-RFUH-EIC01 Edge Intelligent Controller, Edge Intelligent Controller</p>
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