

**Access and Control Extension Module  
User's Manual**

**Version 1.0.0**

## **Welcome**

Thank you for purchasing our product!

This user's manual is designed to be a reference tool for your system.

Please keep this user's manual well for future reference!

Please read the following safeguard and warnings carefully before you use this series product!

## **Important Safeguards and Warnings**

- All installation and operation here should conform to your local electrical safety codes.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.
- Do not apply power to the device before completing installation.
- UPS is recommended if you want to use the device even in power failure.
- Always follow the instruction guide the manufacturer recommended.
- Be sure to use all the accessories recommended by manufacturer.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

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# 1. General Introduction

## 1.1 Overview

The access and control extension module is a door extension module controller for 86mm×86mm power box. The extension module can work independently with the access control, video door phone and management platform. It can easily realize A&C extension function. The module communicates with the upper-level device via RS485 BUS to realize A&C function and support swipe card function with the card reader. It has one-channel door sensor signal input, one-channel lock/unlock input and one-channel door sensor control output and etc. The door lock supports NO/NC.

Access and control extension module can work with the management platform to issue card, delete card and open door remotely. The module can upload the swipe card information, door lock/unlock information, alarm information to the management center to realize the realtime door surveillance. Besides, the management center can set the A&C parameters and set customized swipe card period and time sync. After grant the card rights, it can swipe the card or use the button to open the door without the main controller.

## 1.2 Typical Connection

Please refer to the following figure for typical connection information. See Figure 1.

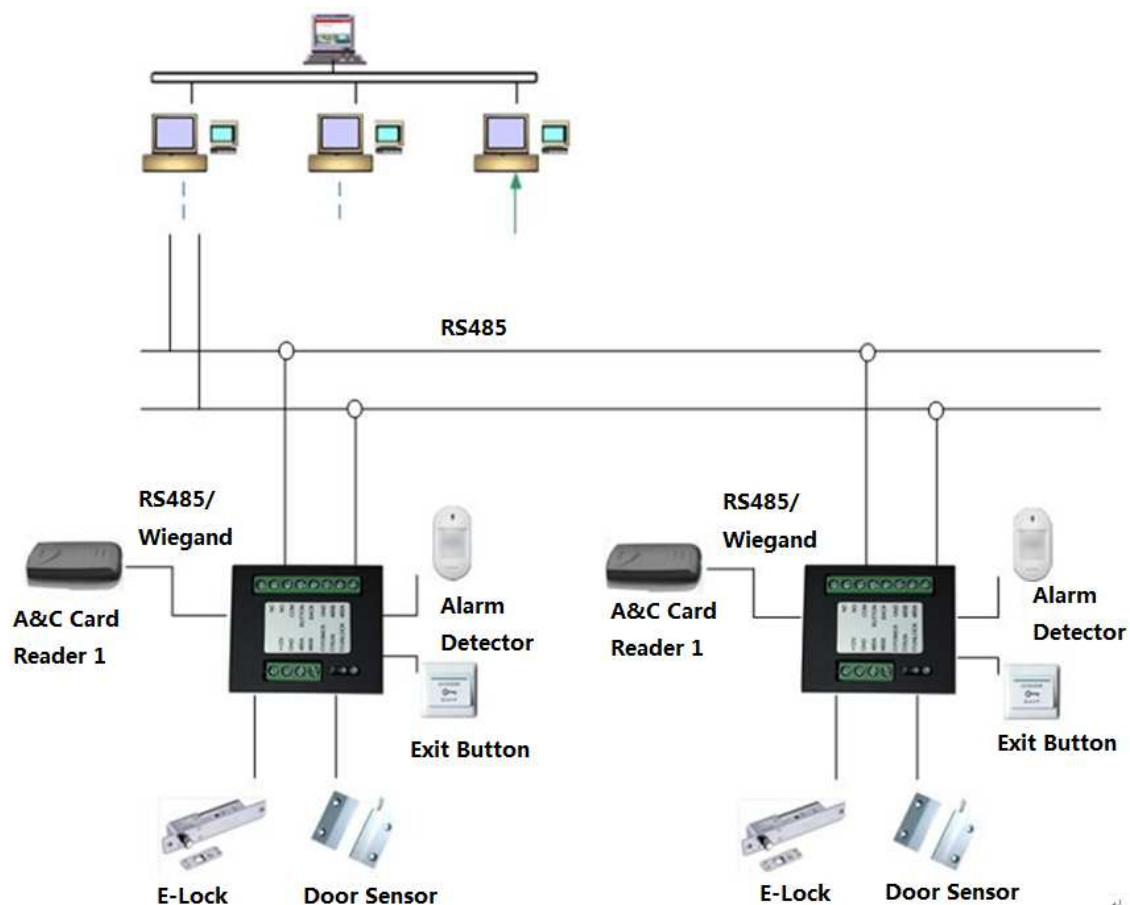


Figure 1

## 2. Installation

Please refer to the following figure for installation information. See Figure 2.



Figure 2

Please refer to the following sheet for detailed information

SN	Name	Function
1	+12V	Power
2	GND	Power GND
3	485A	Host 485A
4	485B	Host 485B
5	POWER	Power indicator light
6	RUN	Running indicator light
7	UNLOCK	Unlock indicator light
8	NC	Lock normal close
9	NO	Lock normal open
10	COM	Lock COM
11	BUTTON	Lock/unlock button
12	BACK	Lock sensor feedback
13	GND	Ground
14	485B	Card reader 485B
15	485A	Card reader 485A

### 3. FAQ

- I swipe the card but can not open the door.
  - ✧ Please contact the management center, make sure the card has the corresponding right, or it is still in the valid period or it can not be used in current period.
  - ✧ The magcard is damaged.
  - ✧ Check the card reader connection. Make sure the card and the reader can work properly.
  - ✧ The lock or the device is damaged.
  
- The device and the management center can not communicate.
  - ✧ Check 485 communication cable connection.
  
- Click the lock/unlock button can not open the door.
  - ✧ Check the lock/unlock button and the device connection.
  
- After open the door, the lock remains open for a long time.
  - ✧ Check the door is close or not.
  - ✧ The door sensor connection is OK or not. If there is no door sensor, please contact the management center to make sure there is door sensor.
  
- I still have questions here.
  - ✧ Please contact your retailer or service engineer for help.

## 4. Specifications

Model	Module
<b>A&amp;C</b>	
Lock NO	Support
Lock NC	Support
Lock/Unlock Button	Support
Door Status Detection	Support
<b>Operation Mode</b>	
Input	Swipe card to input (work with the card reader) and lock/unlock button
<b>IC Card</b>	
Supported Card Amount	Max 5000 cards
Add/Delete Card	Support
<b>Realtime Clock</b>	
Clock Time Sync	Support
RTC Protection after Power Outage	Support
<b>Uploaded Information</b>	
Upload Card No.	Support
Upload Door Open Information	Support
Upload Alarm	Support
<b>Others</b>	
Power Supplying	DC12V±10%
Power Consumptions	Standby≤0.5W; Work≤1W
Working Environment	-10℃~+60℃
	10~95%RH
Dimensions	58mm*51mm*24.5mm (L*W*H)
Weight	0.56kg

### Note

- This manual is for reference only. Slight difference may be found in the user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.

- **Please visit our website or contact your local service engineer for more information.**