Four-Door Access Controller User's Manual

V1.0.2

Table of Contents

Important Safeguards and Warnings

Please read the following safeguards and warnings carefully before using the product in order to avoid damages losses and body injuries. After reading, please well keep this user's manual.

Note:

- Please change user default password after being armed.
- Do not install the device at position exposed to sunlight or in high temperature. Temperature rise in device may cause fire.
- Do not expose the device to lampblack, steam or dust. Otherwise it may cause fire or electric shock.
- The device must be installed on solid and flat surface in order to guarantee safety under load and earthquake. Otherwise, it may cause device to fall off or turnover.
- Do not drop or splash liquids onto the device, and do not place container with full liquid on the device to prevent liquid spilling from entering the device.
- Do not block air vent of the device or ventilation around the device. Otherwise, temperature in device will rise and may cause fire.
- Use the device only within rated input and output range.
- Do not disassemble the device without professional instruction.
- Please transport, use and store the product under appropriate temperature and humidity.

Warning:

- Please use battery properly to avoid fire, explosion and other dangers.
- Please replace used battery with battery of the same type.
- Do not use power line other than the one specified. Please use it properly within rated range. Otherwise, it may cause fire or electric shock.
- Please use power supply matching SELV requirements, and IEC60950-1 Limited Power Source. Power supply shall follow requirements on device label.
- For I-type structure product, connect it to power supply plug with GND protection.
- If you use power plug or appliance coupler as disconnecting device, please maintain the disconnecting device available to be operated all the time.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

1 Overview

The access controller is a controlling device which compensates video monitoring and bidirectional talk. It has neat and modern design with strong functionality, suitable for commercial building, corporation property and intelligent community.

It has:

- It adopts slideway and lock installation design for easy installation and repair.
- It integrates alarm, access control, video monitoring, fire alarm and control module input.
- It supports 4 sets of card readers.
- It supports 9 groups of input signal (unlock button *4, door sensor *4, intrusion alarm *1).
- It supports 5 groups of output control (electric lock *4, alarm output *1).
- RS485 port, may extend to connect to lift control module, alarm or household control module. It may connect upper device via RS485.
- FLASH storage capacity is 16M (may extend to 32M), max supports 100,000 card holders and 150,000 records.
- It supports illegal intrusion alarm, unlock overtime alarm, forced card alarm and forced setup. It also supports black-white list and patrol card setup
- It supports setup of card period, password and validity. Guest card in additional has setup of times of use.
- It supports 128 groups of schedules, 128 groups of periods and 128 groups of holiday schedule.
- Data storage during outage, built-in RTC (support DST), online upgrading.

2 Device Appearance

Access controller appearance and dimension are shown in Figure 2- 1 Dimension 1 and Figure 2- 2 Dimension 2. Unit is mm.
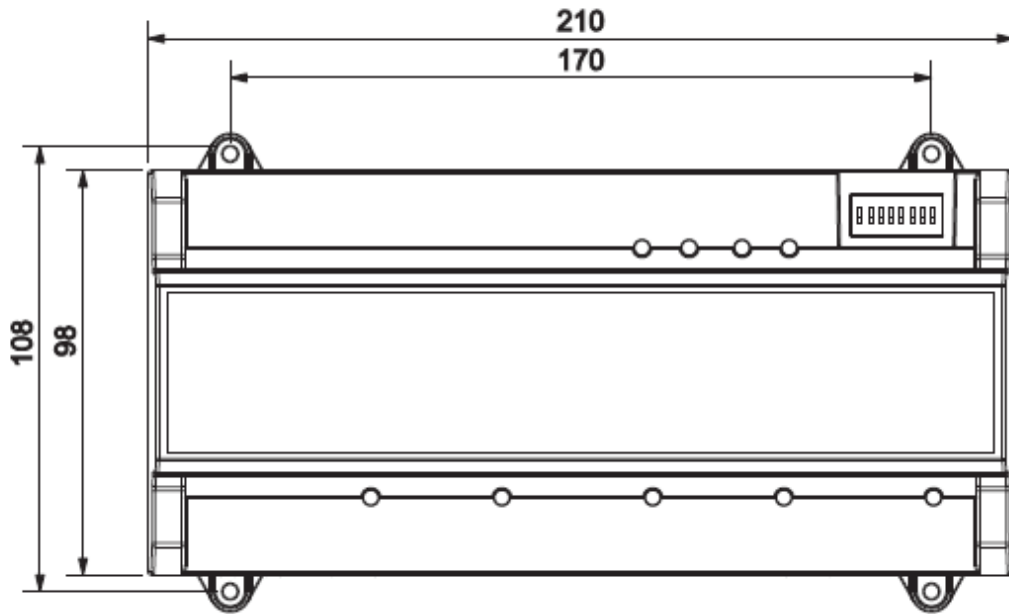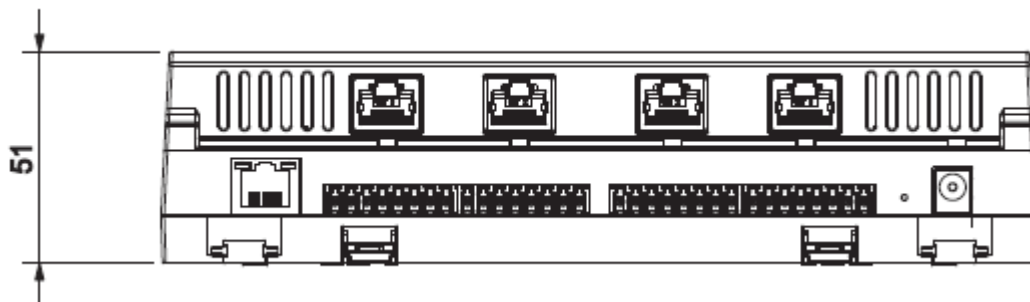

Figure 2- 1 Dimension 1

Figure 2- 2 Dimension 2

3 Device Installation and Uninstallation

3.1 Device Installation

You can install the device either:
● Fix it on wall with screw.
● Fix it on wall with bracket.

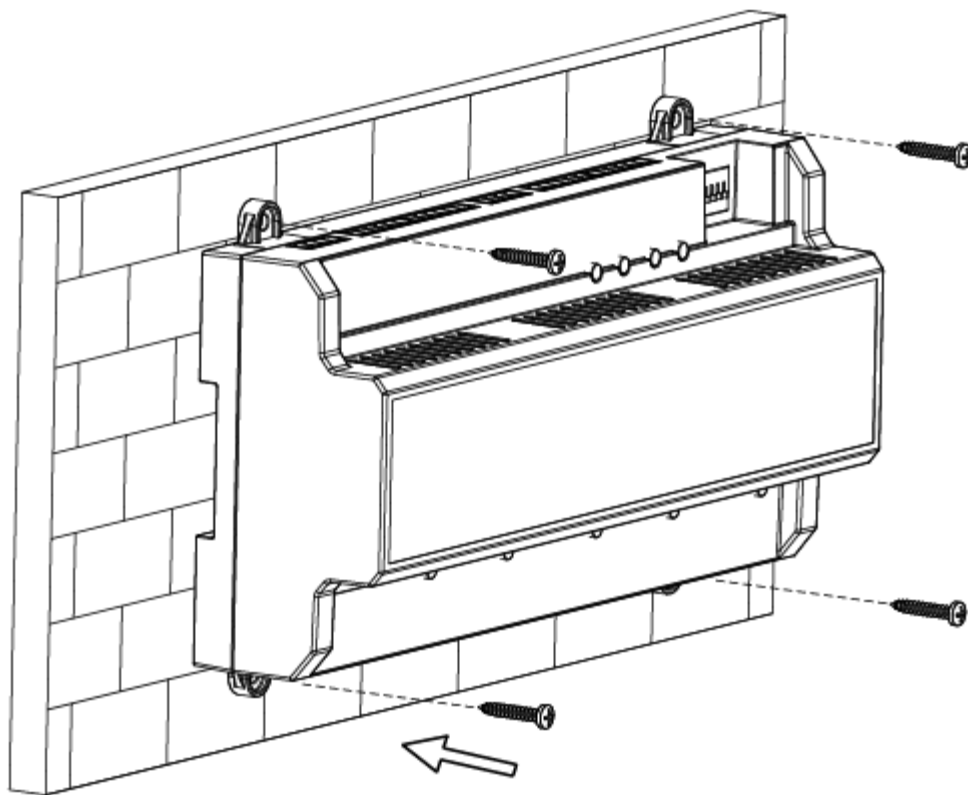Installation 1: Fix device on wall with screw as in Figure 3- 1

Figure 3- 1

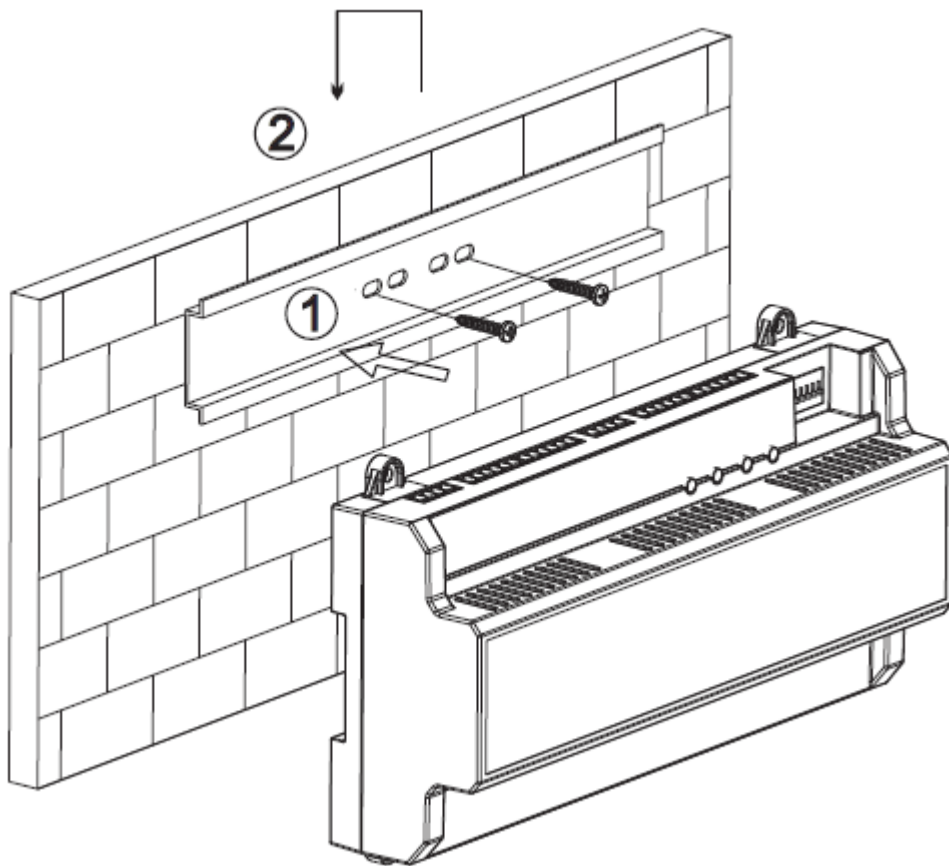Installation 2: Fix it on wall with bracket as in Figure 3- 2.

Figure 3- 2

Installation steps:

Step 1.   Fix bracket on wall with screw.

Step 2.   Fasten the device into slot on bracket and pull device downward until it is in place.

3.2 Device Uninstallation

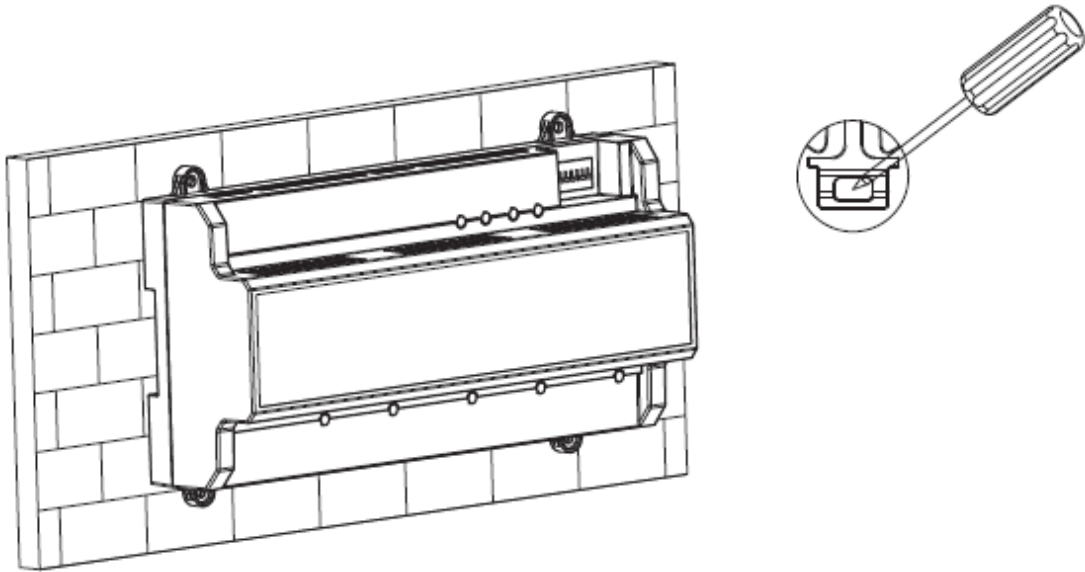Uninstallation method for installation 2 is shown in Figure 3- 3.

Figure 3- 3

Uninstallation method:

Step 1.   Face screwdriver toward the slot and press it to fasten.

Step 2.   Do it again for second slot, and you can take the device down.

4 Port

4.1 Port

Device ports are illustrated in Figure 4- 1.
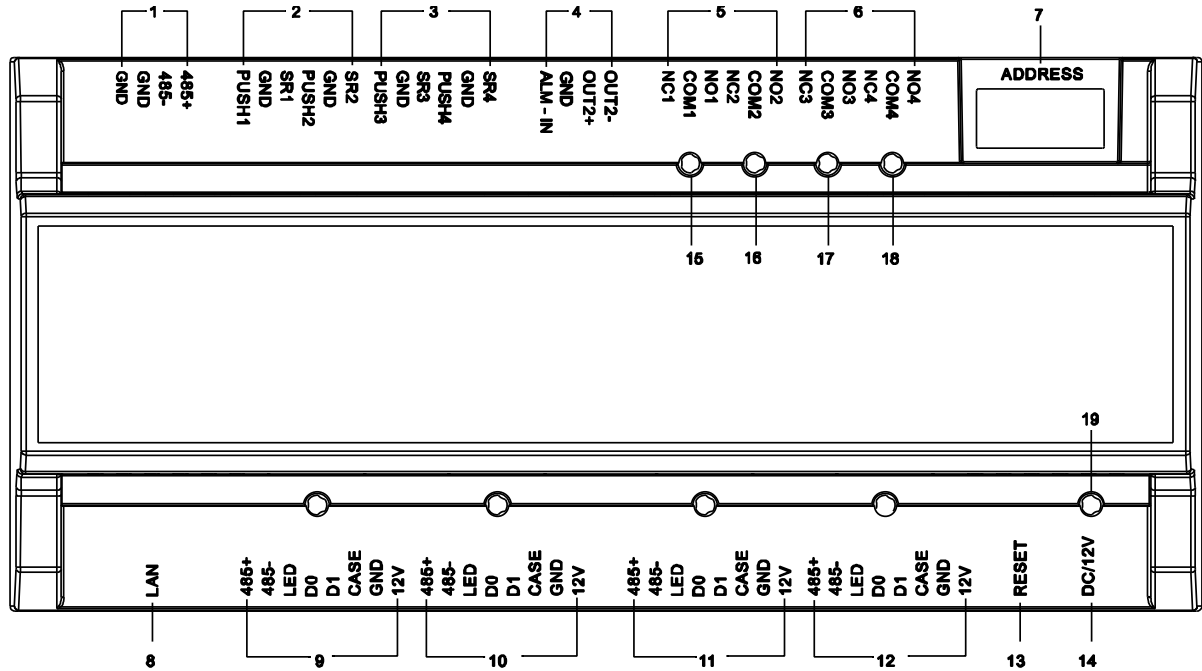
Figure 4- 1

Ports are defined as:

No.	Port	No.	Port
1	RS485 communication, software port	8	TCP/IP, software platform port
2	No.1, 2 doors unlock +door sensor	9	No.1 door card reader
3	No.3, 4 doors unlock +door sensor	10	No.2 door reader
4	Alarm input/output	11	No.3 door reader
5	No.1, 2 doors lock control output	12	No.4 door reader
6	No.3, 4 doors lock control output	13	Reset
7	Dial-up switch	14	DC 12V power port

Indicators are defined as:

No.	Note
15	Lock status indicator
16	
17	
18	
19	Power indicator

4.2 Cabling

Cabling ports of No.1 to 7 are shown as Figure 4- 2.
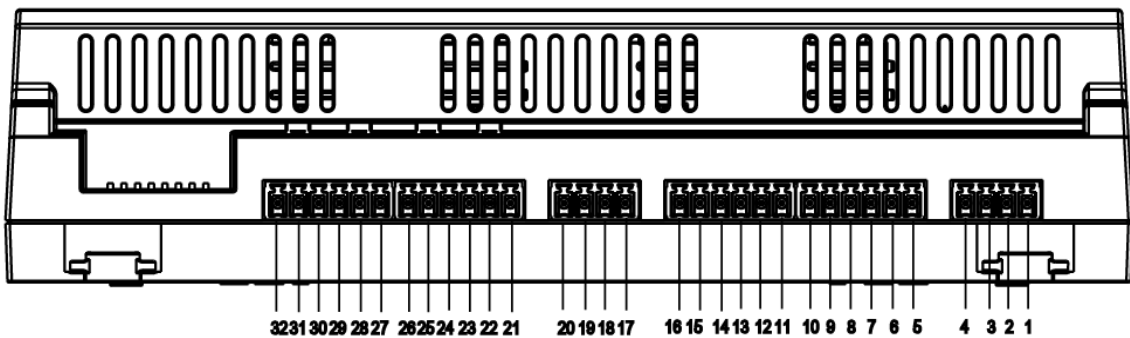
Figure 4- 2

Cabling ports of "RS485 communication" are as follows:

Port	No.	Cabling Port
485 Communication	1	GND
	2	GND
	3	485-
	4	485+

Cabling ports of "Unlock+Door sensor" are as follows:

Port	No.	Cabling Port	Note
Unlock+Door Sensor	5	PUSH1	No.1 door's unlock button
	6	GND	No.1 door's unlock button and door sensor
	7	SR1	No.1 door's door sensor
	8	PUSH2	No.2 door's unlock button
	9	GND	No.2 door's unlock button and door sensor
	10	SR2	No.2 door's door sensor

Port	No.	Cabling Port	Note
	11	PUSH3	No.3 door's unlock button
	12	GND	No.3 door's unlock button and door sensor
	13	SR3	No.3 door's door sensor
	14	PUSH4	No.4 door's unlock button
	15	GND	No.4 door's unlock button and door sensor
	16	SR4	No.4 door sensor

Cabling ports of "Alarm Input/Output" are as follows:

Port	No.	Cabling Port	Note
Alarm Input/Output	17	ALA-IN	Alarm input
	18	GND-	
	19	OUT+	Alarm output
	20	OUT-	

Cabling ports of "Lock output control" are as follows:

Port	No.	Cabling Port	Note
Lock Control Output	21	NC1	No. 1 door outage unlock
	22	COM1	No. 1 lock power 12V input
	23	NO1	No. 1 door outage lock off
	24	NC2	No. 2 door outage unlock
	25	COM2	No. 2 lock power 12V input
	26	NO2	No. 2 door outage lock off
	27	NC3	No. 3 door outage unlock
	28	COM3	No. 3 lock power 12V input
	29	NO3	No. 3 door outage lock off
	30	NC4	No. 4 door outage unlock
	31	COM4	No. 4 lock power 12V input
	32	NO4	No. 4 door outage lock off

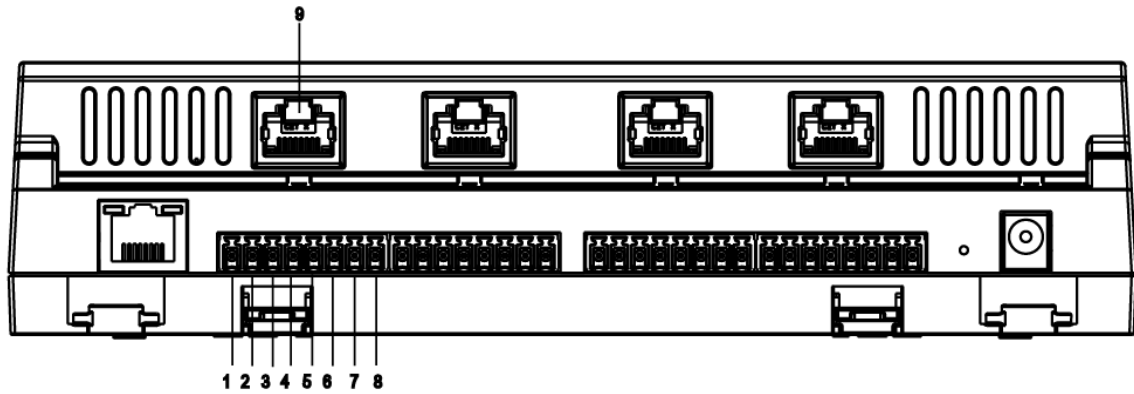Cabling ports of card reader are shown in Figure 4- 3.

Figure 4- 3

Cabling ports of "No. 1 entry card reader" are as follows. It is same for "No.1 door's card reader", "No.2 door's card reader", "No.3 door's card reader" and "No.4 door's card reader".

Port	No.	Cabling Port	Note
No.1 Entry Card Reader	1	485+	485 card reader
	2	485-	
	3	LED	Wiegand card reader
	4	D0	
	5	D1	
	6	CASE	
	7	GND	Card reader power
	8	12V	

4 RJ45 cables' colors are defined as follows:

No.	Cabling Port	Color
9	485+	White-orange
	485-	Orange
	LED	White-green
	D0	Blue
	D1	White-blue
	CASE	Green
	GND	White-brown
	12V	Brown

4.3 System Structure

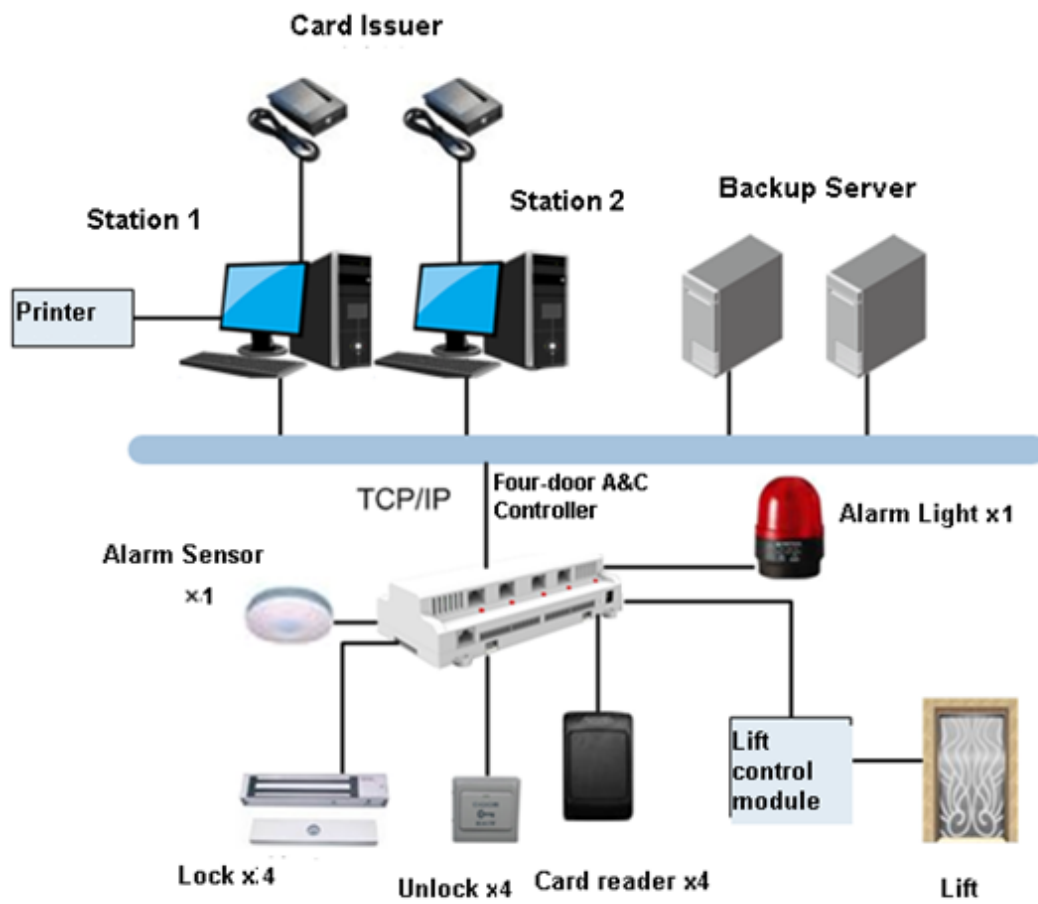The access controller, lock, card reader and etc. combine a system as in Figure 4- 4.

Figure 4- 4

5 Technical Specification

Parameter	Specification
Processor	32 bit ARM processor
Storage Capacity	16M
Max User	100,000
Max Record	150,000
Card Reader Communication Port	Wiegand, RS485
Platform Communication Port	TCP/IP
Input Card Reader Quantity	4 groups
Working Power	Rated power 10-15VDC, rated current 0.75A
Schedule	128
Period	128
Holiday	128
Unlock Mode	Card, card+password, password, card or password, card+fingerprint, fingerprint+password, fingerprint or card or password, by period.
Cross-segment Network	Support
Dual-door Lock	Support
Real-time Monitoring	Support
Alarm Activation	Support
Vandal-proof Alarm	Support
Illegal Intrusion Alarm	Support
Unlock Overtime Alarm	Support
Forced Card and Password Setup	Support
DST and Time Sync	Support
Online Upgrading	Support

Note:

- **This manual is for reference only. Slight difference may be found in 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.**