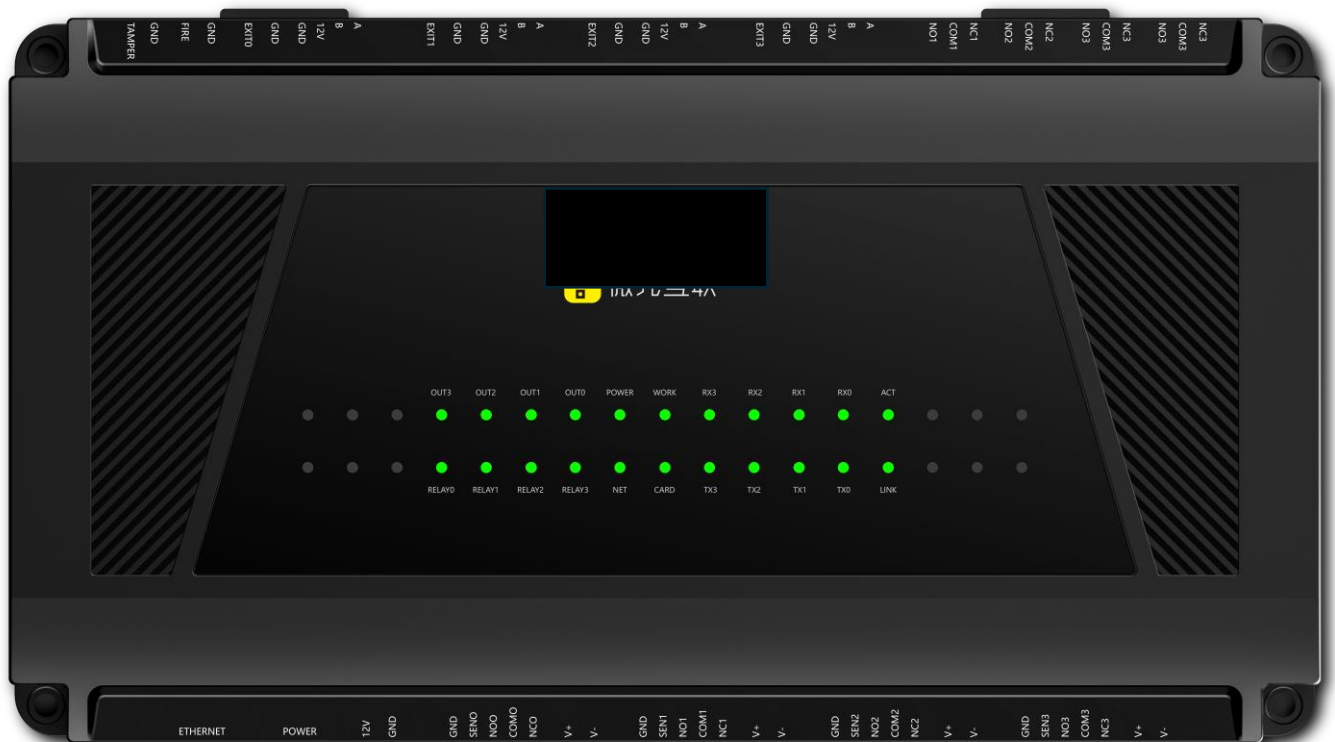


Port Description

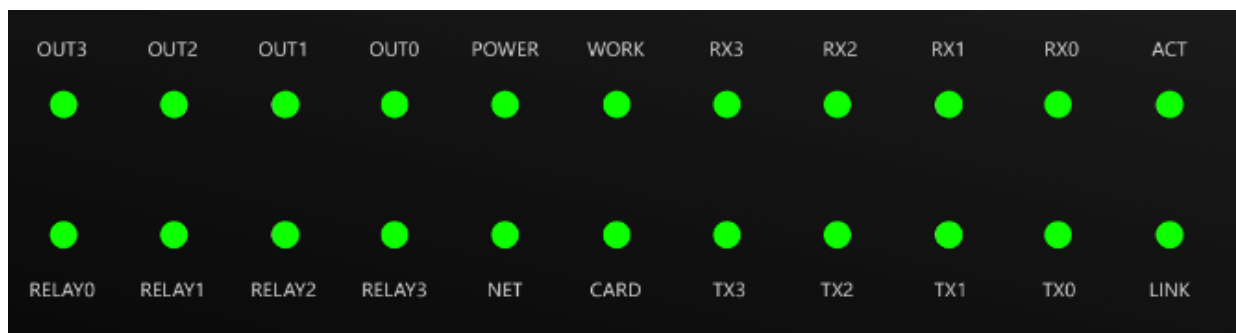


Port Description List

Port number	definition	illustrate	
1	Network cable port	Connect the network cable	
2	Power port #1	Connect the power adapter (choose one of power 1 and power 2)	
3	Power port #2	Connect an external 12V power supply (choose one of power supply 1 and power supply 2)	
4	Four-way locking terminal	GND	Door magnetic signal input terminal
		SEN	
		NO	Relay output
		COM	
		NC	
		V+	Electromagnetic lock power supply
		V-	
5	Four auxiliary outputs (reserved)	NO	Relay Normally Open
		COM	Relay common terminal

		NC	Relay normally closed terminal
6	Four external readers	A	485A
		B	485B
		12V	12V output
		GND	Power Ground
7	Four-way exit button	GND	Connect the Exit Button
		EXIT	
8	Two auxiliary inputs	GND	Fire alarm input
		FIRE	
		GND	Tamper input
		TAMPER	
9	Door sensor	GND	Connect the door magnetic detection terminal of the lock head (if there is no terminal, do not connect it)
		SEN	
10	Relay	NO	Normal start
		COM	Public
		NC	Normally closed

Meaning of control box indicator lights



Indicator Lights	definition	illustrate
OUT (0-3)	Auxiliary relay output indicator light (yellow)	Yellow light: valid output Off: No output
POWER	Power indicator light (red)	Red light: Power on Lights off: No electricity
WORK	Working indicator light (green)	Normal mode: flashing at 500ms intervals Disable mode: flashing at 1500ms intervals

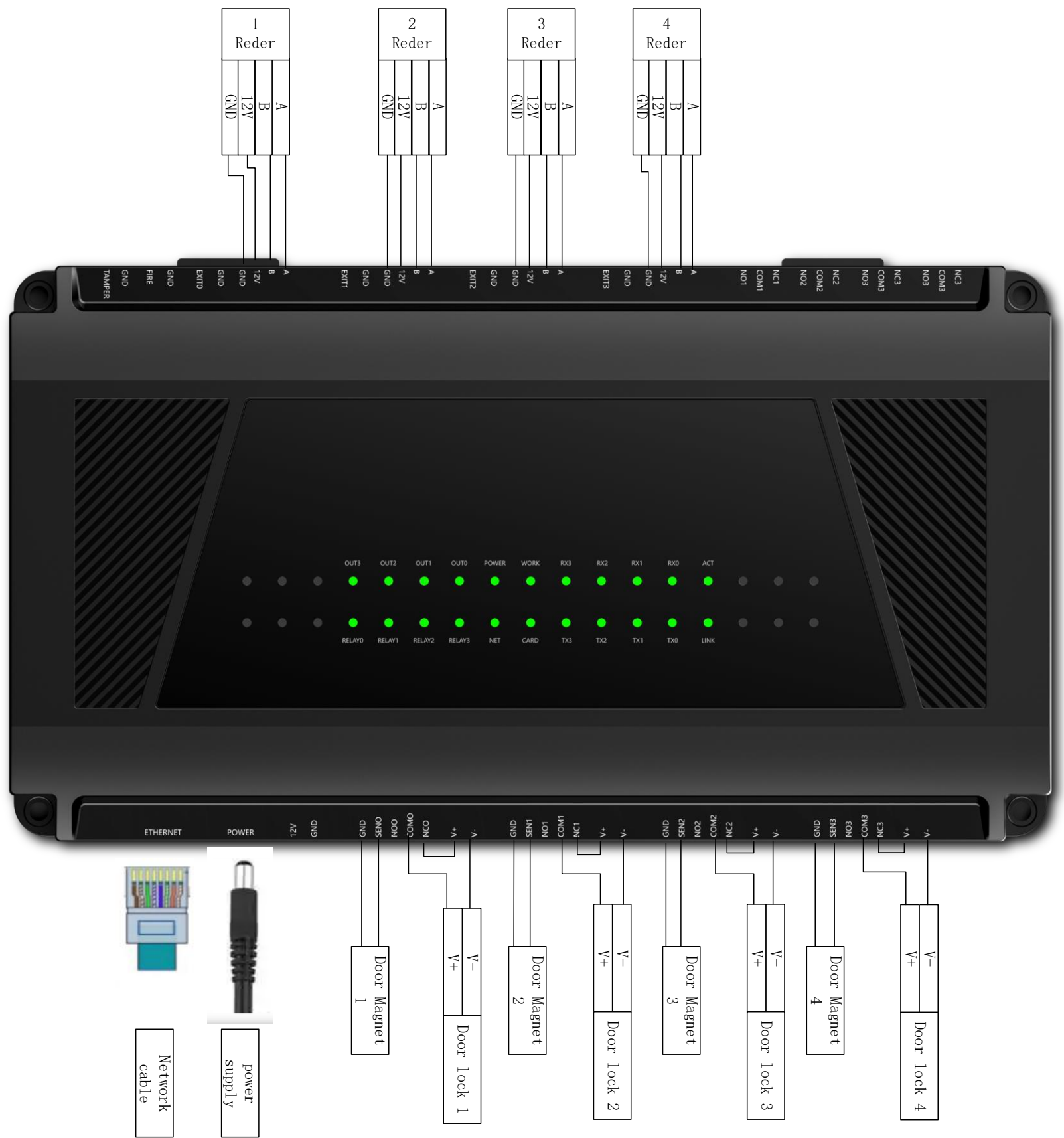
RX (0-3)	485 receiving signal light (yellow)	Flashes when there is a signal
TX (0-3)	485 output signal light (green)	Flashes when there is a signal
ACT	Data light (yellow)	Steady on: PHY is not powered on Flashing: data transmission and reception
LINK	Network cable light (yellow)	Steady on: Network cable connected Off: The network cable is not connected
CARD	Card swipe indicator light (yellow)	Reserve
NET	Network light (yellow)	Light off: No network connection Flashing every 3 seconds: Starting to connect to the Internet Flashing every 2 seconds: Connecting to the Internet Flashing every 1 second: MQTT connected
RELAY (0-3)	Relay light (green) corresponding to the reader (0-3)	Light on: relay is activated

1. Control board wiring diagram

1.1. Wiring considerations

- Before installation, turn off external circuits (powering the system), including door locks, and do not apply power until installation is complete.
- Before connecting the device to power, please confirm that the power output voltage is within the specified voltage range.
- It is strongly recommended that the exposed part of all terminal blocks should not exceed 4mm. Professional wire clamping tools can be used to prevent accidental contact of excessively long bare wires, which may cause short circuits and communication failures.
- Do not plug or unplug the terminal blocks while power is on.
- Do not connect the controller and other high-current devices to the same power socket.
- It is recommended to use wires with specifications specified in the manual to connect the devices.
- Power supply: Either power interface 1 or power interface 2 can be used for power supply.

1.2. Equipment wiring



Product Model	FCC4901、FCC4904
Product Name	Single door/four door access controller
Communication	TCP/IP, UDP, MQTT, RS485
Card reader input format	RS485 115200 BAUD
Number of card readers that can be connected	2/4
Controllable gate output	1/4
Number of user registration cards	10W
Number of offline storage records	10W
Matching chassis size (CM)	191*191*43
Work Environment	-30 to 70 degrees Celsius
Operating humidity	10%-80%
Supporting power supply	12VDC 5A