

16 Input and 8 Output TCP/IP Module with 6A DC12V PSU

IO-16-8IP



User Manual

Please read these instructions carefully before operating the unit
and keep for further reference.

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Chapter 1 Overview

The IO-16-8IP is an advanced fully intelligent Ethernet enabled controller based on a 32 bit microprocessor. It is compatible with Sphinx Series access controllers.



1.1. Features

1. 32 bit TI ARM® Cortex M3 processor with 4MBit data memory
2. Power Over Ethernet
3. On board 100MBit real TCP/IP
4. Event Flow Control
5. Includes UDP Protocol
6. CE, FCC, RoHS approval

1.2. Specifications

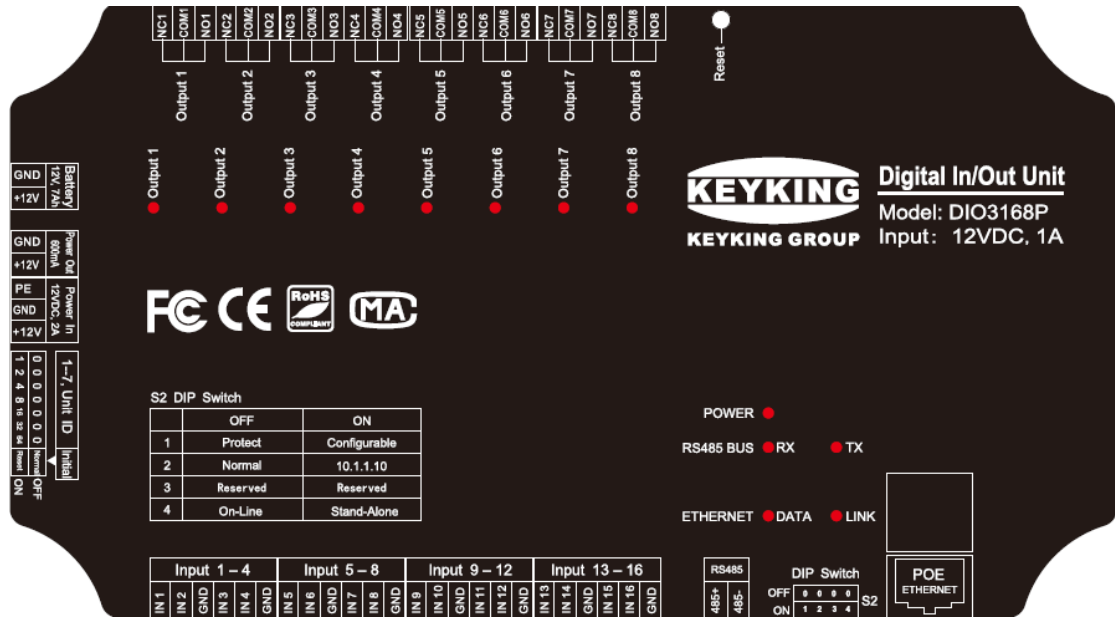
1. CPU: 32 Bit Processor
2. 8 Output Relays (NC/NO)
3. 16 Inputs (NO)
4. RS-232/RS-485/TCPIP interface
5. POE: 802.1af
6. TCP Communication speed: 100M
7. 15 Time Groups for each relay
8. Transaction Storage: 25,000 events
9. Operating Voltage: 12V DC ($\pm 10\%$)
10. 110/220 AC (50/60HZ) switched mode 12V DC 6A Power Supply c/w 13.8V DC battery

charging circuit

11. Operating Current: $\leq 200\text{mA}$
12. Standby Current: $\leq 150\text{mA}$
13. Working Temperature: $-40\text{C}\sim 70\text{C}$
14. Data Memory: 4M bit (protected)
15. 1 Lithium battery backup (up to 10 years data retention)
16. Metal case dimensions: 403mm x 384mm x 72mm
17. Weight: 0.2Kg (without metal case)
18. 4.7Kg (with metal case & PSU)

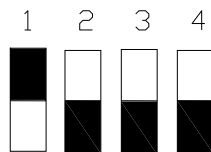
Chapter 2 Hardware

2.1. Panel description



2.2. DIP switch

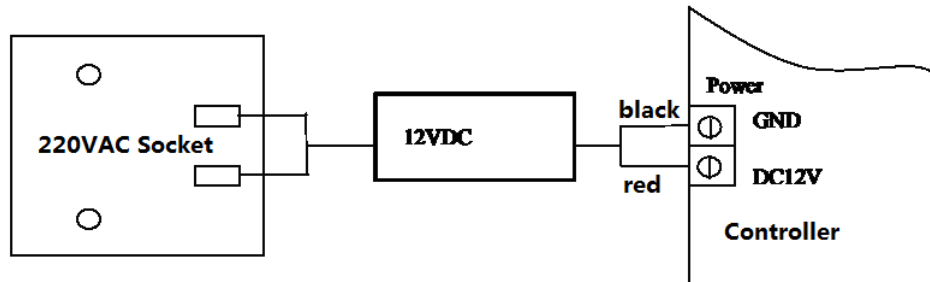
S2:



| DIP \ Status | ON | OFF |
|--------------|---------------------|--------------------|
| | DIP 1 | Configurable |
| DIP 2 | ForcedIP: 10.1.1.10 | Normal |
| DIP 3 | Reserved | Reserved |
| DIP 4 | Online, TCP | Standalone , RS485 |

Chapter 3 Wiring

3.1. Power supply



Power:

| No. | Controller socket | Identification | Color | Remark |
|-----|-------------------|----------------|------------|--------|
| 1 | Power In | PE | Protection | Yellow |
| 2 | | GND | Ground | Black |
| 3 | | DC 12V | 12VDC | Red |

3.2. POE Power Supply

The POE provides power and data from a single point, using Power over Ethernet over a single Cat-5 cable. The nine fast Ethernet ports can be used for any 10\100 Mbps link and four of these ports can supply industry-standard IEEE802.3af power. Advances auto-sensing algorithm gives power only to IEEE802.3af end devices, so no need to worry about damaging proprietary POE or non-POE equipment.



Notes:

- 220VAC power and POE power supply, two choose one, do not use at the same time.
- When using POE power supply, total current \leq 1000mA, output current \leq 600Ma
- please check the working current carefully to avoid the shortage of power supply when connecting the reader.
- When using a magnetic lock, please do not take electricity from the controller in case the power supply is insufficient.
- When using POE power supply, you can connect the battery to the controller.

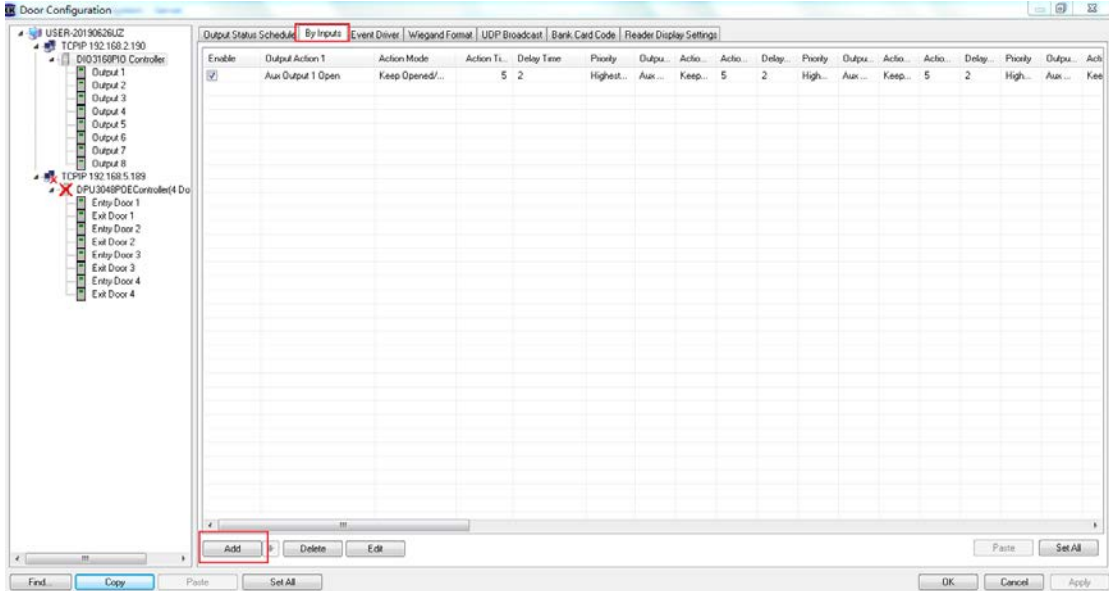
3.3. SMPS1260 Power Supply

The SMPS1260 is a heavy duty Switch Mode Power Supply with a 110-123V input. It has 2 outputs, a 12V DC 6 Amp primary output and a secondary 12V DC battery charging output.



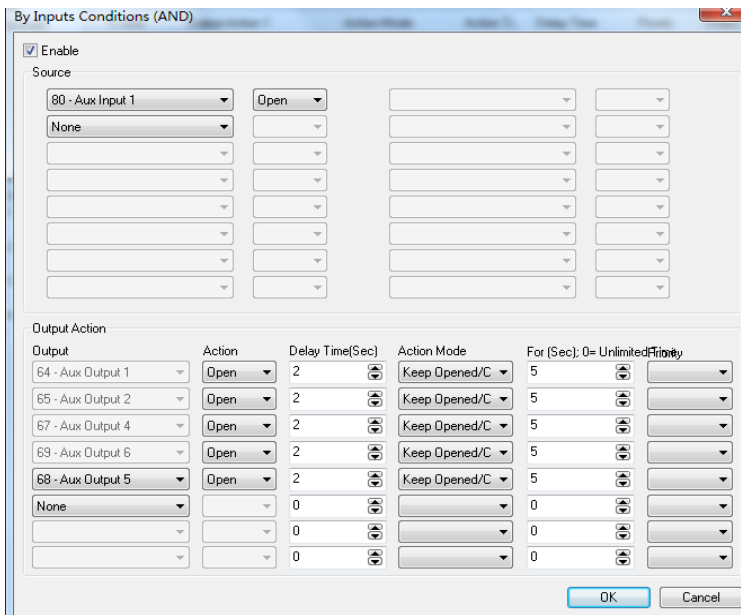
Chapter4 Operation

In **【door configuration】** door configuration ,we can set rules **【by inputs】**



In **【output action】**, there are two action mode.

- Keep opened/closed: keep opened/closed until next link condition ,it can set keeping times
- Back to normal:following the condition .when input is over ,the output is down.



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