

Model Name:

Intelligent DI/DO Manager

Intelligent DI/DO Manager provides managers with the ability to monitor environmental information remotely through the network. All information can be monitored and controlled by a web browser. Managers can enter the Intelligent DI/DO Manager in real time through the web page at a remote location and directly monitor and control all relevant parameters. Event alerts can be preset and notified to managers via Email and TRAP, allowing managers to perform crisis management in the shortest possible time and minimize disasters.

Intelligent DI/DO Manager provides DIDO function. Users can connect 4 groups of DI remotely through the network, link any dry contact type sensor, such as smoke detection, water line detection, wind speed detection, access control reed switch and proximity switch and other sensors; determine environmental state changes through DI signal changes. When the state changes, set event-driven 4 groups of DO, such as alarm sound, motor start, or switch built-in output socket, automatically control driving device; and can notify managers via email and SNMP TRAP, so that managers can respond to crises in the shortest possible time and minimize problems and losses.

Intelligent DI/DO Manager provides two sets of temperature and humidity sensing interfaces, which can be purchased externally for this sensor, track temperature and humidity environmental variables, and also preset temperature and humidity thresholds. When exceeding the threshold, it can also drive 4 groups of DO according to preset conditions to solve problems or alert processing.

Features:

System Function:

- Embedded system:
Support 10/100M Ethernet interface, provides webpage and SNMP remote management.
 - Multiple protocols:
Support ICMP, ARP, IP, TCP, UDP, DHCP, HTTP, HTTPS, FTP, NTP, SNMP v1/2/3, TLS1.3, IPv4 and IPv6, Telnet, SSHv2
 - Management Account Certification:
Radius certification support.
 - Multi-account management:
Multi-group account management system. And provide three-tier permission management.
 - IP filtering:
Support IP filtering, improve network security mechanisms.
 - Power record:
Store up to 100000 power and event data.
 - Remote firmware upgrade:
Provides remote firmware upgrade mechanism.
 - System operation message:
Send the normal operation of the message automatically by trap.
 - Hardware key definition:
User-definable button function.
 - Temperature unit conversion:
Temperature units can choose Celsius or Fahrenheit
 - System configuration restore:
Support the output of the system settings, to easily deploy a large amount of the same model of PDU.
 - Multilingual Support:
Support Chinese, English, French, German, Spanish, Russian, Czech, Arabian, Persian.
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Power Management:



Remote Monitor

Remote monitoring device status by web and SNMP



Remote Control

Remote DO on/off by web and SNMP.



Digital I/O

Connect various sensors. Support web pages to set various actions.



Mail Notification

Notify specified user by mail and SNMP when DO action or current over threshold.



Schedule Control

Timed & scheduled on/off/reboot control.



Event Reaction

DO action via pre-set event, including power, environment event and receiving trap from other device.



Ping Event Control

When the specified IT device does not respond to PING, the output will perform a preset power action.



Environment Detection

Optional accessory probe to detect temperature and humidity.



Power Sequence

User-definable DO on/off sequence time.

Model Number:

IOT-IO-N3



Specification

Output		Input	
Voltage	100-127 VAC	Voltage	100-127 VAC
Max. Current	15 A	Frequency	50/60Hz, full range
Controllable Outlet	(2) 5-15R	Max. Capacity	1905 VA
Bypass Outlet	(1) 5-15R	Connection	C14 Inlet
DO Status	(4) Green LED	DI Status	(4) Green LED
		Power Status	(1) Red LED
		Other	
		ENET Connection	(1) RJ45
		ENV Connection	(2) RJ11
		Function Selection	(1) Button
		DHCP Ind.	(1) Green LED
		SSL Ind.	(1) Blue LED
		Info. Display	4 digits of 7 Segments
DI		DO	
Type: Dry contact 1 set of 4-way terminal block. Connection: 0.5 to 1.5 mm ² / 28 to 14AWG Close status: Impedance less than 50 ohms Open status: Impedance greater than 50 ohms		Type: Relay 1 set of 2-way terminal block. Connection: 0.5 to 2.5 mm ² /24 to 12 AWG Range : Contact Open(off) or Close (on) Rated load:16A 240VAC / 16A 24Vdc Max. switching current: 16A Max. switching voltage: 250VAC Max. switching capacity: 4000VA	
Dimension/Weight		Operation	
Net Size	254 x100 x 68 mm	Operation Temp.	0 ~ 50°C
Net Weight	1 kg	Operation Humid.	0% ~ 90% RH
Package Size	505 x 210 x 90 mm	Storage Temp.	-20°C ~ 65°C
Package Weight	1.5 kg	Storage Humid.	0% ~ 90% RH
Approval			
Certification	CE, FCC		
Warranty	2 years		

Package

No.	Description
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- 1 PDU 1 set
- 2 Power cord, C13 to 5-15P, 1.8 m



- 3 Manual, MIB by link below



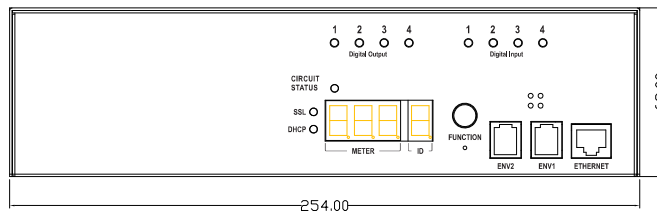
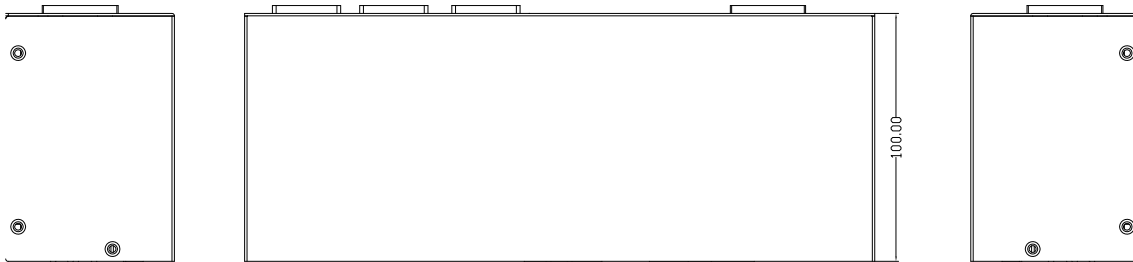
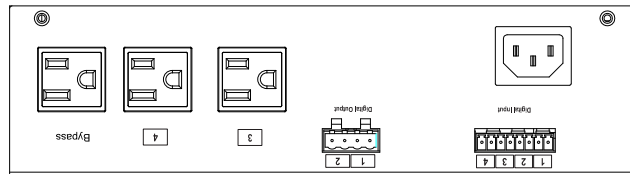
Optional Accessory

Model Number	Model Name
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|-----------|----------------------|
| CPM-ENV-2 | Temp./Humidity probe |
|-----------|----------------------|

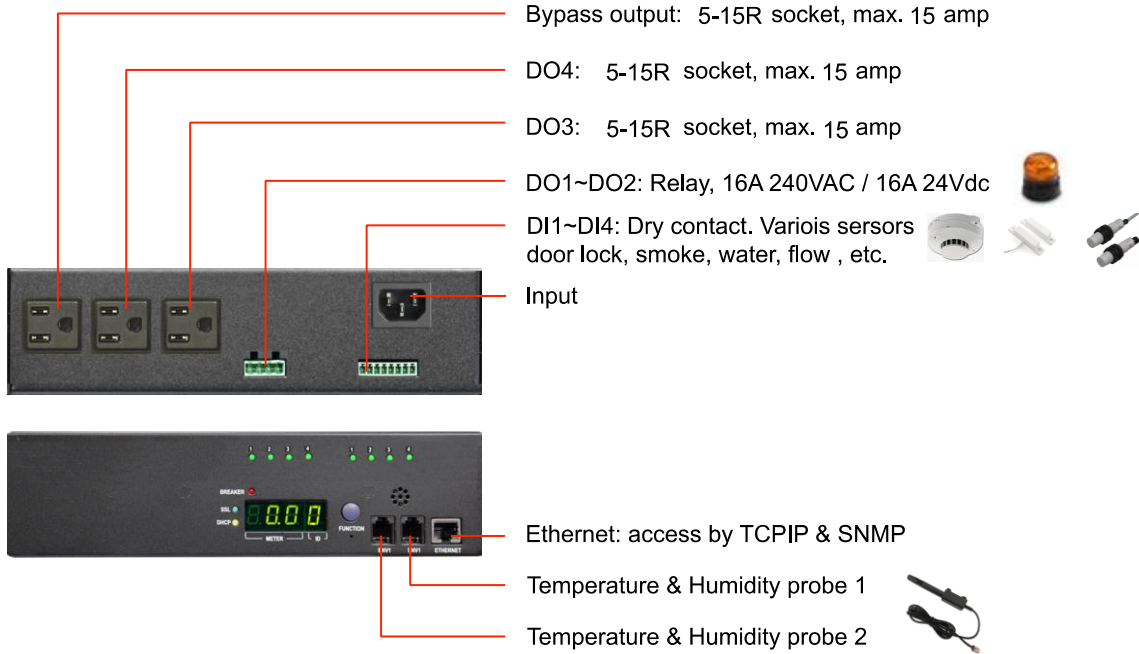


Line Drawing



Application note

The IOT-IO-N3 has a built-in conditional logic which can be set by web browser, which allows users to set the criteria for DI and temperature and humidity changes. Based on the criteria, the program automatically drives



Built-in conditional logic web interface

Event Action Setting

ENV (1) Temperature Overrun Occurs Add Modify
 Event Receive Trap .1.3.6.1.4.1. Value Ignore From
 DI1 & DI2 & DI3 & DI4

Set DI criteria

DO
 Delay second(s)
 Action
 Action Type

Set DO action when DI criteria is met

Event List

No.	<input type="checkbox"/>	Event	Action	Enable
01	<input type="checkbox"/>	ENV (1) over the Temperature Overrun Occurs	DO3 (3) Delay 10 second(s) and turn Close/Open	<input checked="" type="checkbox"/>
02	<input type="checkbox"/>	DI1 Close	DO1 (1) Delay 1 second(s) and turn Open	<input checked="" type="checkbox"/>
03	<input type="checkbox"/>	DI1 Open	DO1 (1) Delay 1 second(s) and turn Close	<input checked="" type="checkbox"/>

Example