

## Industrial Ethernet Switch

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OC-7N1000 series (100M unmanaged switch)

This manual refers to the following products. Features vary between types

Order code	Features
OC -7N1005	5x10/100Base-TX
OC -7N1008	8x10/100Base-TX
OC -7N1016	16x10/100Base-TX

<sup>\*</sup>Optical port supports 1\*9 module optional, electrical port supports POE optional.



#### **Product Introduction**

OC-7N1000 series (100M unmanaged) industrial-grade Ethernet switch is an entry-level product specifically launched for the industrial control field. This product can provide stable and reliable Ethernet transmission, with high-quality design and reliability. It can provide users with high-efficiency bandwidth and reliable optical fiber network solutions for Ethernet data exchange, convergence, and remote optical transmission. The product has the characteristics of small size, fan-less, low power consumption, high reliability, good stability, and easy maintenance.

Industrial Ethernet switch products adopt mature technology and open network standards, adapt to low temperature and high temperature, strong anti-electromagnetic interference, anti-salt spray, anti-vibration, and anti-shake, equipped with redundant dual DC power supply (24V/48V), which can always be maintained for the needs the connected key equipment provides a redundancy mechanism. It can also work in the standard operating temperature range of -40 to 75°C. Industrial switches support DIN rail or wall-mounted installation and have IP40 protection level. They are the perfect choice for harsh environments, such as industrial networks, intelligent transportation systems (ITS), and are also suitable for many military and public utility market applications, where environmental conditions exceed commercial products specification.

#### **Features**

- -Support 10/100M electrical port adaptive, full/half duplex auto-negotiation mode
- -Support 100M SC/FC/ST/LC interface fiber port, support single/dual fiber transmission Optional
- -Support IEEE802.3az energy saving technology
- -Support IPv6 protocol
- -Power input polarity protection design, no need to worry about wrong operation
- -Metal shell, fan-less design
- -Installation method: DIN rail installation/wall mounting
- -8KV surge protection, safer outdoor use

#### **Parameter**

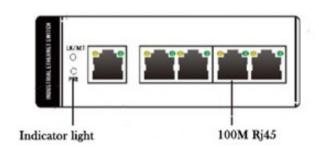
	IEEE802.3 IEEE802.3u	SFP interface	Optical module optional
Ethernet standard	IEEE802.3z IEEE802.3ab IEEE802.3x IEEE802.3az	RJ45 electrical port transmission distance	100m (Use standard CAT5/CAT5e cables)
	IEEE802.3ah IEEE802.1X	Power	
	IEEE802.1Q 5 Ports: 512Kbits/	Power supply current	0.2/0.1A
Cache	8 Ports: 1M	Operating voltage	DC 9-56V, AC 15-40V
Maximum frame	2K Bytes	Overvoltage	
MAC address	4K	protection	supported
Forwarding mode	Store-and-forward & pass-	Power reverse	supported
Torwarding mode	through (full/half duplex mode)	Power consumption	Full load <15W
	Delay: < 7μs	POE - Optional	
Exchange	Backplane bandwidth:	POE standard	IEEE 802.3af/at, PSE
performance	5 Ports:1.25Gbps	POE power	Single port maximum 30W
	8 Ports:2Gbps	POE line order	1/2(+), 3/6(-)End jumper
Transmission distance		Physical characteristics	

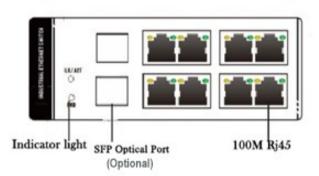


Material	Metal material	Warranty	5-year warranty and lifetime
Cooling method	Natural cooling, fan-less design		maintenance
	with finned case	Certification standar	rds
Installation size	5 ports120mm x 90mm x 35mm	EMI	FCC Part 15 B Class A, EN
	(L x W x H)		55022 Class A
	8 ports138mm x 106mm x	EMS	EN61000-4-2(ESD), EN61000-
	41mm (L x W x H)		4-3(RS),
Installation method	DIN rail/wall mounting		EN61000-4-4(EFT), EN61000-
Weight	300g		4-5(Surge),
Environmental requirements			EN61000-4-6(CS), EN61000-4-
Operating	-40°C~75°C		8,
temperature	-40 C~73 C		EN61000-4-11
Relative humidity	5%~90% (No condensation)	Impact	IEC60068-2-27
storage temperature	-40°C~85°C	Drop	IEC60068-2-32
Guarantee		Shock	IEC60068-2-6
Mean time between	500,000 Hrs.	Security Level	EN60950-1

Products Display. Note: Different types vary.

OC-7N1000 series





100Mbps 5-Port

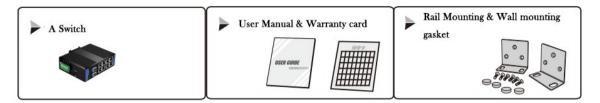
100Mbps 8-Port

## **Indicator light definition**

Indicator Status Description	Indicator Status Description	Indicator Status Description
Power indicator: PWR	Always on	Normal
	Always off	No power
Optical port indicator: LK/ACT	Always on	Optical connection is normal
(Optional)	Flashing	Optical port has data transmission
	Always off	Optical port is not connected
Electric port indicator	Always on	The electrical connection is normal
	Flashing	Data transmission via electrical port
	Always off	The electrical port is not connected

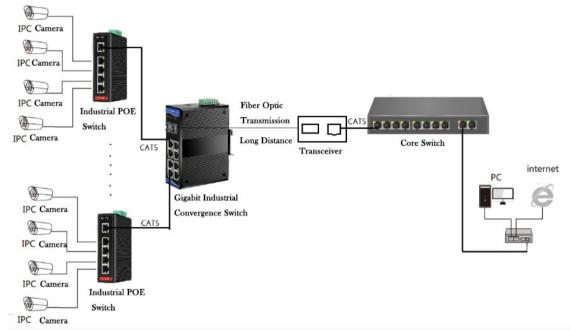


#### **Box contents**

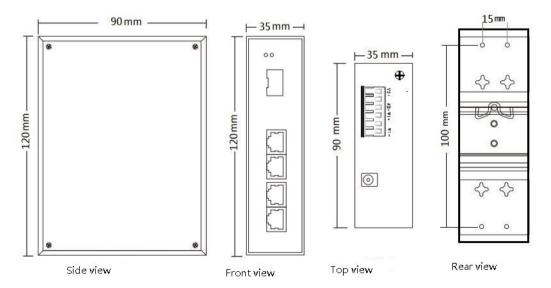


\*Note: The SFP model does not contain optical modules by default. If you find that there is a shortage or damage of accessories, please contact us immediately. Please enter your order number and date onto the warranty card for future reference if needed. The Switch carries a 5-year warranty.

Applications. Note: Fibre Optic and POE are optional features.

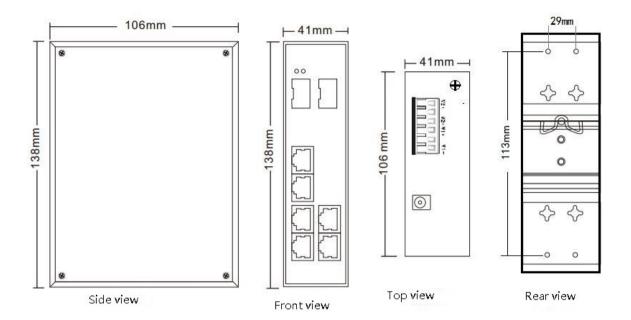


Product Size: 5 Ports for 10/100 Base,





**Product Size: 8 Ports for 10/100 Base** 



### **Industrial switch product installation**

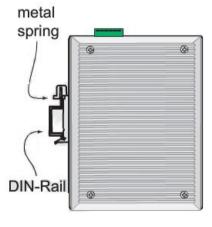
### **DIN** rail installation

When unpacking, the aluminum guide rail accessory metal plate has been fixed on the back of the switch. If you need to re-install it, make sure that the metal spring is at the top, as shown in the figure below.

Step1: Insert the top of the guide rail into the groove just below the metal spring.

Step2: The rail accessories will be embedded in the rail, as shown in the following figure.

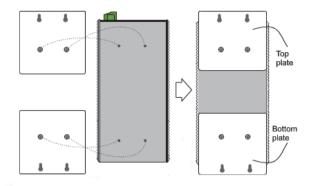






#### Wall mount

Step1: When unpacking, the aluminum guide rail accessory metal plate has been fixed on the reverse side of the switch. Remove the wall-mounted metal plate from the switch and re-install it, as shown in the figure below.

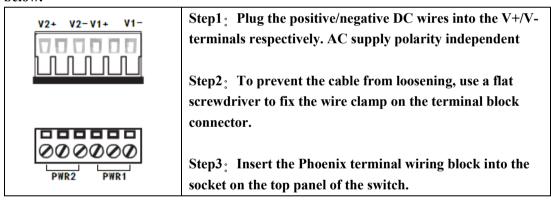


Step2. To install the switch on the wall, 4 screws are required for wall mounting.

Attention: Before screwing the screws into the wall, make sure the screw size can match the wall-mounted metal panel.

### Connect the redundant power cord

Industrial switches have two redundant power inputs—PRW1 and PWR2. The connector of the Phoenix terminal wiring block is located on the top panel of the switch. The front view of the wiring board is shown below.



**Attention:** To avoid equipment damage or personal injury caused by improper use, please observe the following precautions:

- Ø During the installation process, keep the power off, wear an anti-static wrist **band**, and ensure that the anti-static wrist **band** is in good contact with the skin to avoid potential safety hazards:
- Ø The switch can work normally under the correct power supply. Please confirm that the power supply voltage matches the voltage marked on the switch.
- Ø Before powering on the switch, please confirm that it will not cause overload of the power circuit, so as not to affect the normal operation of the switch or even cause unnecessary damage:
- Ø In order to avoid the risk of electric shock, do not open the shell when the switch is working, even when it is not live, do not open it by yourself;
- Ø Before cleaning the switch, the power plug of the switch should be unplugged, do not wipe with wet fabric, do not clean with liquid:
- Ø The equipment installed in the rack is generally from bottom to top to avoid overloading installation.
- Ø Avoid placing other heavy objects on the surface of the switch to avoid accidents.