

# NS-208A/NSM-208A

## Unmanaged 8-Port Industrial 10/100 Mbps Ethernet Switch



### Introduction

The NS-208A/NSM-208A has 8 Ethernet ports that support 10/100 Base-TX, with a 10/100M auto negotiation feature and auto MDI/MDI-X function.

All Ethernet ports have memory buffers that support the store-and-forward mechanism, which assures that data can be transmitted properly. The NS-208A/NSM-208A supports advanced network standards to optimize network performance, reduce maintenance costs, and secure network safety.

The flow control mechanism is also negotiated. There is link/data rate LEDs for each port to aid troubleshooting. Port connectors are shielded RJ-45.

### Features

Automatic MDI/MDI-X crossover for plug-and-play
Each port supports both 10/100Mbps speed auto negotiation
Store-and-forward architecture
Full duplex IEEE 802.3x and half duplex backpressure flow control
Operating temperatures, -40 ~ +75°C
DIN-Rail

### Specifications

Models	NS-208A	NSM-208A
<b>Technology</b>		
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward, wire speed switching	
MAC Addresses	2048	
Memory Bandwidth	2 Gbps	
Frame buffer memory	512 Kbit	
Flow Control	IEEE802.3x flow control, back pressure flow control	
<b>Interface</b>		
RJ45 ports	10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection	
LED Indicators	Power, Link/Act, 10/100M	
Ethernet Isolation	1500 Vrms 1 minute	
<b>Power Input</b>		
Input Voltage Range	+12 ~ +48 VDC	
Power consumption	0.2 A@ 24 VDC	
Protection	Power reverse polarity protection	
Connection	3-Pin Removable Terminal Block	
<b>Mechanical</b>		
Casing	Plastic (Flammability UL 94V-0)	Metal (IP30 Protection)
Dimensions (W x L x H)	31 mm x 157 mm x 113 mm	25 mm x 168 mm x 119 mm
Installation	DIN-Rail	
<b>Environmental</b>		
Operating Temperature	-40 °C ~ +75 °C	
Storage Temperature	-40 °C ~ +85 °C	
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	

### LED Indicator Functions:

LED	Color	Description
Power	Red On	Power is On
	Red Off	Power is Off
Port1 ~ 8	Yellow On	Link to 100 Mbps
	Yellow Off	Link to 10 Mbps
	Green On	Link/Act
	Green Off	Not Networking

### Pin Function For Terminal Block:

External power supply is connected using the removable terminal block:

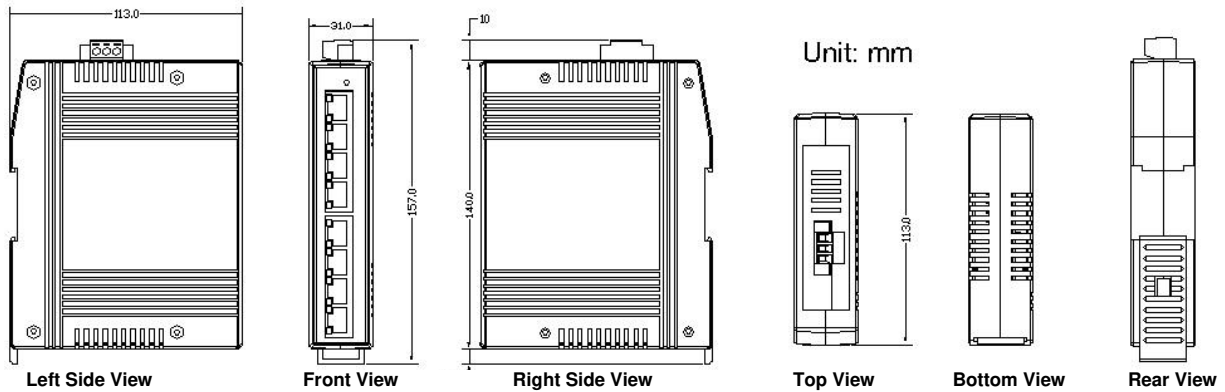
**PWR** : Power input (+12 ~ +48 VDC) and should be connected to the power supply (+)

**GND** : Ground and should be connected to the power supply (-)

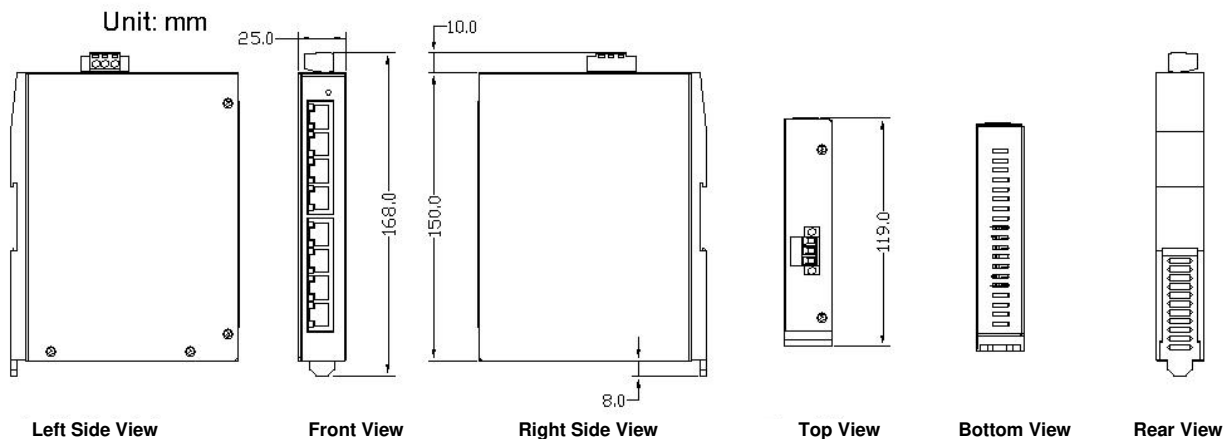
**F.G.** : F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

### Dimensions:

#### NS-208A



#### NSM-208A



### Ordering information

NS-208A CR	Unmanaged 8-Port Industrial 10/100 Mbps Ethernet switch
NSM-208A CR	Unmanaged 8-Port Industrial 10/100 Mbps Ethernet switch; metal casing