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 | | |
|---------------------------|--|---|--|--|
| Technology | | | | |
| Standards | IEEE 802.3, 802.3u, 802.3x | 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 | IEEE802.3x flow control, back pressure flow control | | |
| Interface | | | | |
| RJ45 ports | 10/100 Base-T(X) auto negotiation spec | 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 | Power, Link/Act , 10/100M | | |
| Ethernet Isolation | 1500 Vrms 1 minute | 1500 Vrms 1 minute | | |
| Power Input | | | | |
| Input Voltage Range | +12 ~ +48 VDC | +12 ~ +48 VDC | | |
| Power consumption | 0.2 A@ 24 VDC | 0.2 A@ 24 VDC | | |
| Protection | Power reverse polarity protection | | | |
| Connection | 3-Pin Removable Terminal Block | | | |
| Mechanical | | | | |
| 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 | | | |
| Environmental | | | | |
| Operating Temperature | -40 °C ~ +75 °C | -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:

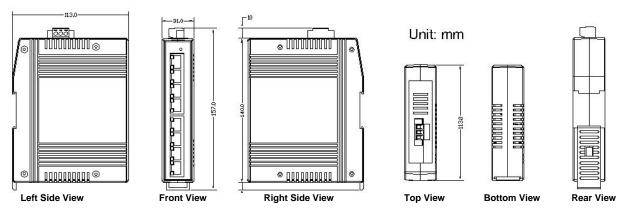
PWR : Power input (+12 ~ +48 VDC) and should be connected to the power supply (+)

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

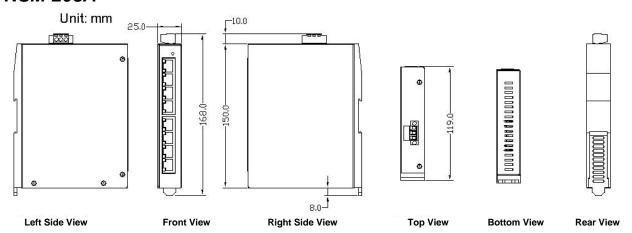
F.G.: F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

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 | | |