

NSM-108

Unmanaged 8-Port Industrial 10/100 Mbps Ethernet Switch



Introduction:

The NSM-108 has 8 Ethernet Switching ports that support 10/100Base-T(X), with a 10/100M auto-negotiation feature and auto MDI/MDIX function.

It can connect 8 workstations and automatically switches the transmission speed (10 Mbps or 100 Mbps) for corresponding connections. The flow control mechanism is also negotiated.

LEDs embedded in RJ-45 jacks make for easy monitoring. Port connectors are shielded RJ-45. A power source for +10~+30VDC is required.

Features:

- Automatic MDI / MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 2 Gbps high performance memory bandwidth.
- Supports +10 ~ +30V DC voltage
- Supports operating temperatures from -30 ~ +75 °C
- IP20, rugged high-strength metal case
- Support DIN-Rail and Wall Mounting.

Specifications:

- Compatibility: IEEE 802.3, IEEE802.3u, IEEE802.3x
- Frame buffer memory: 1 Mb
- Address Table Size: 1K uni-cast addresses
- Interface: 10/100 Base-T
- Port: 10/100 Mbps x 8 (Shielded RJ-45 Jack)
- Provides LEDs for network and power monitoring
- ESD Protection:
 - 8KV Contact Discharge
 - 15KV Air-Gap Discharge
- Cables:
 - 10 Base-T (Cat.3, 4,5 UTP cable; 100m Max.)
 - 100 Base-T (Cat.5 UTP cable; 100m Max.)
- Environment:
 - Operating temperature: -30 ~ +75 °C
 - Storage Temperature: -40 ~ +85 °C
 - Relative Humidity: 10% to 90% non-condensing
- Dimensions: 72.5 x 110 x 102 mm (W x H x D)
- Power requirements: +10 to +30V DC (Removable Terminal Block)
- Power consumption: 0.12A@24Vdc; +/- 5%, arrowed.

LED functions:

Standard RJ45 female connectors are provided. A standard RJ45 plug cable is all that is necessary to connect your device to the unit since switch that supports auto crossover. Table shows the LED indicator functions. The module includes an internal.

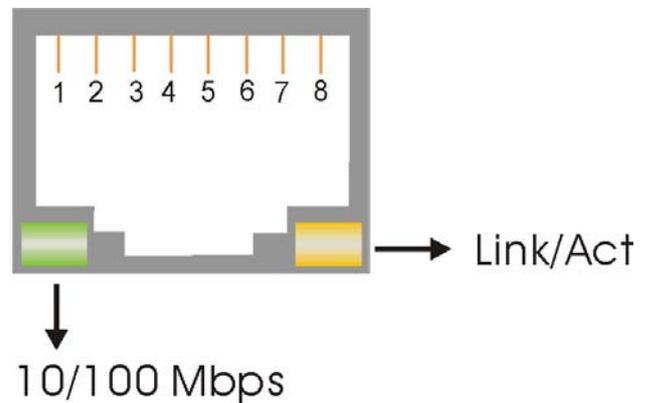
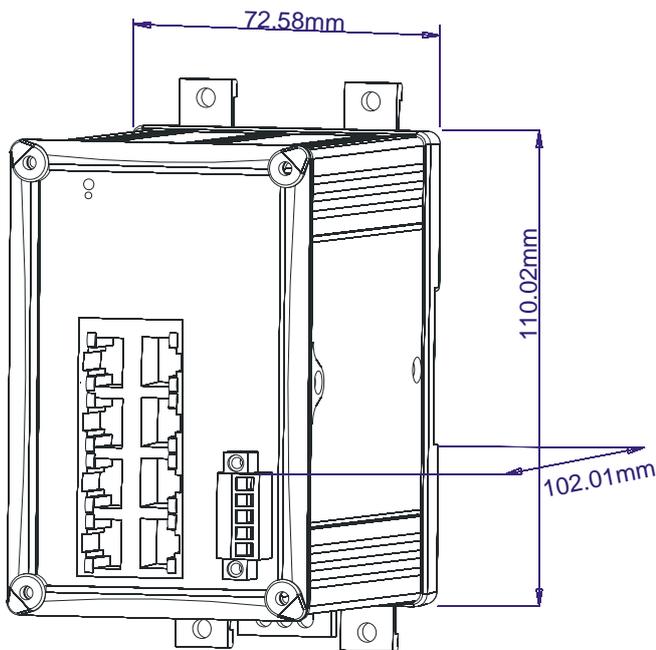
Table

LED	Color	Description
Power	Red On	Power is On
	Red Off	Power is Off
Ethernet Port	Yellow On	Link/Act
	Yellow Off	Not Networking
	Green On	Link to 100 Mbps
	Green Off	Link to 10 Mbps

Pin-Out:

Pin#	Signal Name	Function
1	TD+	Transmit Data
2	TD-	Transmit Data
3	RD+	Receive Data
4	NC	No Connection
5	NC	No Connection
6	RD-	Receive Data
7	NC	No Connection
8	NC	No Connection

Dimensions: 72.5 x 110 x 102 mm (W x H x D)



Checking Power:

Since the NSM-108 consumes 3 W, ensure that your power supply is able to meet this demand. The Input voltage range is +10~+30VDC.

Pin Function For Terminal Block:

External power supply is connected using the removable terminal block:

+Vs : Power input +10 to +30V

GND : Ground

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.