

# NSM-216

## Unmanaged 16-Port Industrial 10/100 Mbps Ethernet Switch



### Introduction

The NSM-216 has 16 Ethernet ports that support 10/100 Base-TX, with a 10/100M auto negotiation feature and auto MDI/MDI-X function. It can connect 16 workstations and automatically switches the transmission speed (10 Mbps or 100 Mbps) for corresponding connections.

All Ethernet ports have memory buffers that support the store-and-forward mechanism, which assures that data can be transmitted properly. The NSM-216 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
Supports operating temperatures from -40 °C ~ +75 °C
Supports Dual +12 VDC ~ +48 VDC power input and 1 relay output

### Specifications

Models	NSM-216
<b>Technology</b>	
Standards	IEEE 802.3, 802.3u, 802.3x
Processing Type	Store & forward, wire speed switching
MAC Addresses	8K
Memory Bandwidth	3.2 Gbps
Frame buffer memory	3 Mbit
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	PWR1, PWR2, Power fail, 10/100M, Link/Act
Ethernet Isolation	1500 Vrms 1 minute
<b>Power Input</b>	
Input Voltage Range	+12 ~ +48 VDC
Power consumption	0.6 A @ 24 VDC
Alarm Contact	One relay output with current carrying capacity of 1A @ 30 VDC
Connector	6-Pin Removable Terminal Block (Power & Relay)
<b>Mechanical</b>	
Casing	Metal (IP30 Protection)
Dimensions (W x L x H)	47 mm x 128 mm x 160 mm
Installation	DIN-Rail Mounting or Wall Mounting
<b>Environmental</b>	
Operating Temperature	-40 °C ~ +75 °C
Storage Temperature	-40 °C ~ +85 °C
Ambient Relative Humidity	10% ~ 90% RH, non-condensing

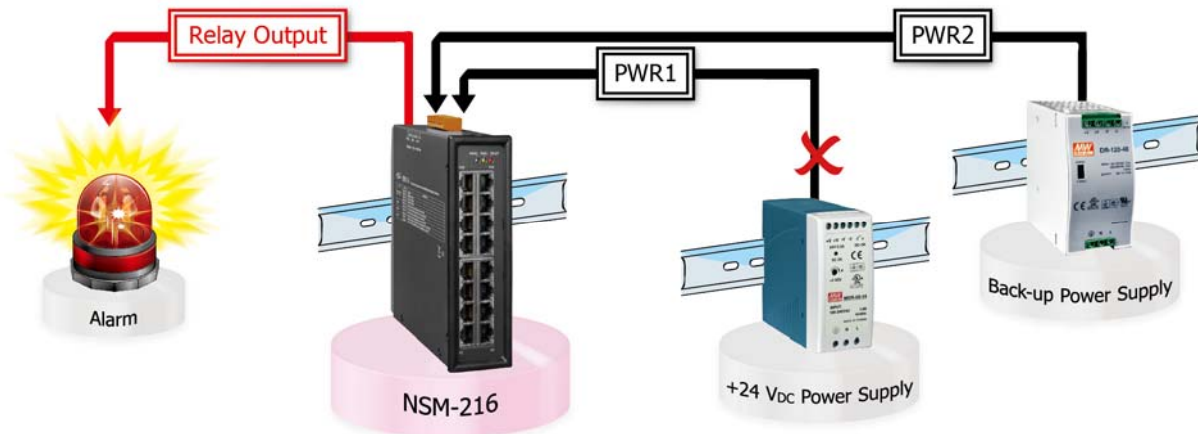
### LED Indicator Functions:

LED	Color	Description
Ethernet Port (P1 ~ P16)	Green On	Link/Act
	Green Off	Not Networking
	Yellow On	Link to 100 Mbps
	Yellow Off	Link to 10 Mbps
PWR1	Yellow On	Power is being supplied to power input PWR1
	Yellow Off	Power is not being supplied to power input PWR1
PWR2	Green On	Power is being supplied to power input PWR2
	Green Off	Power is not being supplied to power input PWR2
Power fail	Red On	Power is not being supplied to power input PWR1 and PWR2
	Red Off	Power is being supplied to power input PWR1 and PWR2

### Redundant Power Input:

Both power inputs can be connected simultaneously to live DC power sources.

If one power source fails, the other live source will act as a backup, and automatically supplies all of NSM-216 series power needs.



### Dimensions:

