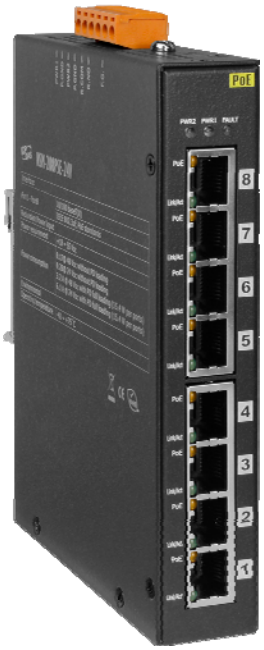
# *NSM-208PSE-24V*

## 8 Port 10/100M Unmanaged Ethernet Switch with 8 IEEE 802.3af PoE ports



The NSM-208PSE-24V is 8-port unmanaged 10/100M Ethernet switch supporting Power-over-Ethernet on ports 1 to 8. The switch is classified as power source equipment (PSE), and when used in this way, the NSM-208PSE-24V switch enable centralization of the power supply, providing up to 15.4 watts. The NSM-208PSE-24V can be used to power IEEE 802.3af standard devices (PD).

Voltage boost technology supports 24V industrial power sources ensuring that a full and proper PSE voltage is available across all PoE ports

## *Features:*

- 8 PoE PSE capable ports, Compliant to IEEE 802.3af
- 24/48 VDC flexible redundant power inputs
- Supports Auto Negotiation and Auto MDI/MDI-X
- Supports Dual +18 ~ 55 VDC power input and 1 relay output
- Supports operating temperatures from –40 ~ +75°C
- DIN-Rail, Wall Mounting (optional)

## *Specifications:*

| **Technology** | |
|---|---|
| Standards | IEEE 802.3 for 10Base-T<br>IEEE 802.3u for 100Base-TX<br>IEEE 802.3x for Flow Control<br>IEEE 802.3af Power Over Ethernet |
| Processing Type | Store & forward, wire speed switching |
| MAC Addresses | 1024 |
| Memory Bandwidth | 3.2 Gbps |
| Frame buffer memory | 512 Kbit |
| Flow Control | IEEE802.3x flow control, back pressure flow control |
| **Interface** | |
| RJ-45 Ports | 10/100BaseT(X) auto negotiation speed, full/half duplex mode,<br>and auto MDI/MDI-X connection |
| LED Indicators | PWR1, PWR2, Power fail, Link/Act, Power Device is detected |
| Ethernet Isolation | 1500 Vrms 1 minute |

| | |
|---|---|
| **Power Input** | |
| Redundant Input Range | Flexible input +24/+48 VDC Nominal. ( +18 ~ +55 VDC) |
| Power Consumption | 0.17@ 48 VDC without PD loading; 3.2 A @ 48 VDC with PD full loading (15.4 W per ports)<br>0.28@ 24 VDC without PD loading; 6.1 A @ 24 VDC with PD full loading (15.4 W per ports) |
| Alarm Contact | One relay output with current carrying capacity of 1A @ 30 VDC |
| Protection | Power reverse polarity protection |
| Connector | 6-Pin Removable Terminal Block (Power & Relay) |
| **Mechanical** | |
| Chassis | Metal with an IP30 ingress protection rating |
| Dimensions (W x L x H) | 28 mm x 120 mm x 160 mm |
| Installation | DIN-Rail or Wall Mounting (with optional kit) |
| **Environmental** | |
| Operating Temperature | -40 °C ~ + 75 °C ( -40° F to 167° F ) |
| Storage Temperature | -40 °C ~ + 85 °C (-40 F to 185° F) |
| Ambient Relative Humidity | 10 ~ 90% RH, non-condensing |

## Getting to know your NSM-208PSE-24V Switch

Package Contents:

· NSM-208PSE-24V
· DIN-Rail mounting (pre-installed on the unit)
· This manual

***Note – optional wall mounting kits may be ordered***

## *LED Indicator Functions:*

| LED | Color | Description |
|---|---|---|
| Ethernet Port (P1 ~ P8) | Green On | Link/Act to 10 Mbps or 100 Mbps |
| | Orange On | Power Device is detected |
| PWR1 | Yellow On | This green LED is turned on when power is applied to the PWR1 input |
| PWR2 | Green On | This yellow LED is turned on when power is applied to the PWR2 input |
| 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-208PSE-24V power needs.

External power supply is connected using the removable terminal block:
PWR (Power) : Power input (+18 ~ +55 VDC) and should be connected to the power supply (+)
P.GND**:** Ground and should be connected to the power supply (-)

## *PoE Ethernet Port Connection:*

PoE ports located on the NSM-208PSE-24V's front panel are used to connect to PoE-enabled devices. The pinout follows the Alternative A, MDI mode" of 802.3af standards. Please see the details in the following table.

| Pin | Signal (MDI Port Pinouts) | PoE (Mode A) |
|---|---|---|
| 1 | TxD+ | V+ |
| 2 | TxD- | V+ |
| 3 | RxD+ | V- |
| 4 | -- | -- |
| 5 | -- | -- |
| 6 | RxD- | V- |
| 7 | -- | -- |
| 8 | -- | -- |

## *Accessories:*

| | |
|---|---|
| DR-120-48 | 48 V/2.5 A, 120 W Single Output Industrial DIN Rail Power Supply |
| MDR-60-48 | 48 V/1.25 A, 60 W Single Output Industrial DIN Rail Power Supply |
| DR-120-24 | 24 V/5 A, 120 W Single Output Industrial DIN Rail Power Supply |
| SDR-240-24 | 24 V/10 A, 240 W Single Output Industrial DIN Rail Power Supply with PFC Function |

***Dimensions (unit = mm):***