NS-206AF Series/NSM-206AF Series Available soon

4-port 10/100 Mbps Ethernet with 2 fiber ports Switch

NS-206AFC-T/FCS-T/FCS-60T

NS-206AFT-T

NSM-206AFC-T/FCS-T/FCS-60T

NSM-206AFT-T









Highlight Information



Features **>>>**

- Provides 2 x 100-FX fiber ports plus 4 x Ethernet ports
- Each port supports both 10/100 Mbps speed auto negotiation
- Full duplex IEEE 802.3x and half duplex backpressure
- flow control

- Automatic MDI/MDI-X crossover for plug-and-play
- Redundant dual +12 ~ 48 V_{DC} power inputs
- Supports operating temperatures from -30 ~ +75°C

DIN-Rail Mounting

- Store-and-forward architecture

- Introduction

The NS-206AF/NSM-206AF is a 4-port unmanaged Ethernet with 2 fiber port switch. Using fiber optics, you can prevent noise from interfering with your system and supports high-speed (100 Mbps) and high-distance (up to 60 km) transmissions.

The NS-206AF/NSM-206AF provides a wide 12 to 48 V_{DC} power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.

-Comparison Table of 6-port 100 Base-FX Fiber Switch

| Mode Name | NS-206F | NSM-206F | NS-206AF | NSM-206AF |
|-----------------------------------|-------------------|---------------------------------------|-------------------|----------------|
| PoE | - | | | |
| Input Voltage Range | +10 ~ +30 VDC | | +12 ~ +48 VDC | |
| Operating Temperature | 0 °C ~ +70 °C | | -30 °C ~ +75 °C | |
| Casing | Plastic | Metal (IP20) | Plastic | Metal (IP30) |
| Installation | DIN-Rail Mounting | DIN-Rail Mounting or Wall Mounting | DIN-Rail Mounting | |
| Dimensions (W x H x D) (Unit: mm) | 64 x 110 x 98 | 72.5 x 110 x 102 | 31 x 157 x 113 | 25 x 168 x 119 |

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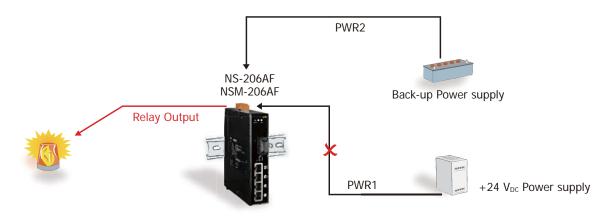


- **Specifications**

| Models | | NS-206AF Series NSM-206AF Series | | | |
|--|---------------------------------------|--|---|--|--|
| Technology | | | | | |
| Standards | | IEEE 802.3, 802.3u, 802.3x | | | |
| Processing Ty | ne | Store & forward; wire speed switching | | | |
| MAC Addresses | | 1024 | | | |
| | | 2.0 Gbps | | | |
| Memory Bandwidth | | · · · · · · · · · · · · · · · · · · · | | | |
| Frame Buffer Memory | | 512 Kbit | | | |
| Flow Control | | IEEE 802.3x flow control, back pressure flo | w control | | |
| Ethernet Inter | face | | | | |
| RJ-45 Ports | | 10/100 Base-T(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection | | | |
| LED Indicators | S | Power, Link/Act, 10/100M | | | |
| Ethernet Isola | tion | 1500 Vrms 1 minute | | | |
| +/-4 kV ESD F | Protection | Yes | | | |
| Fiber Interface | e (100 Base-FX; SC/ST t | ype) | | | |
| Multi-Mode | NS-206AFT-T/FC-T NSM-206AFT-T/FC-T | Multi mode fiber cables: 50/125, 62.5/125 or 100/140 µm Distance: 2 km, (62.5/125 µm recommended) for full duplex Wavelength: 1300 or 1310nm Min. TX Output: -20 dBm Max. TX Output: -14 dBm Max. RX Sensitivity: -32 dBm Min. RX Overload: -8 dBm Budget: 12 dBm | | | |
| Single-Mode | NS-206AFCS-T NSM-206AFCS-T | Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 30 km, (9/125 µm recommended) for full duplex Wavelength: 1300 or 1310nm Min. TX Output: -15 dBm Max. TX Output: -8 dBm Max. RX Sensitivity: -34 dBm Min. RX Overload: -5 dBm Budget: 19 dBm | | | |
| Single-Mode | NS-206AFCS-60T NSM-206AFCS-60T | Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 60 km, (9/125 µm recommended) for full duplex Wavelength: 1300 or 1310nm Min. TX Output: -5 dBm Max. TX Output: 0 dBm Max. RX Sensitivity: -35 dBm Min. RX Overload: -5 dBm Budget: 30 dBm | | | |
| Power Input | | | | | |
| Input Voltage | Range | +12 ~ +48 Vpc (Redundant input) | | | |
| Power Consun | - | 0.14 A @ 24 Vbc | | | |
| Protection | | Power reverse polarity protection | | | |
| +/-4 kV ESD F | Protection | Yes | | | |
| | | 6-Pin Removable Terminal Block | | | |
| | | | | | |
| Mechanical Casing Dimensions (W x L x H) | | Plastic (Flammability UL 94V-0) 31 mm x 157 mm x 113 mm | Metal (IP30 Protection) 25 mm x 168 mm x 119 mm | | |
| Installation | | DIN-Rail Mounting | | | |
| Environmenta | I | | | | |
| Operating Temperature | | -30 °C ~ +75 °C | | | |
| Storage Temperature | | -40 °C ~ +85 °C | | | |
| Ambient Relative Humidity | | 10% ~ 90% RH, non-condensing | | | |

- C- Redundant Power Input for NS-206AF/NSM-206AF series

Both power inputs can be connected simultaneously to live DC power sources. If one power source fails, the other live source acts as a backup, and automatically supplies all of NS-205AF/NSM-205AF series power needs.



-¢- Pin Functions for Power Input

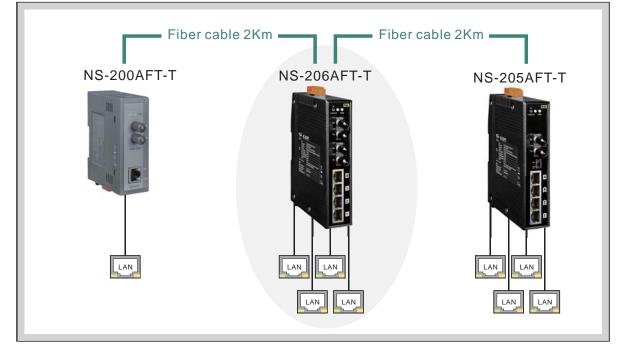
External power supply is connected using the removable terminal block:

 PWR : Power input and should be connected to the power supply (+)

GND: Ground and should be connected to the power supply (-) $% \left(\mathcal{A}_{i}^{\prime}\right) =\left(\mathcal{A}_{i}^{\prime}\right) \left(\mathcal{A}_{i}^{\prime}\right) \left$

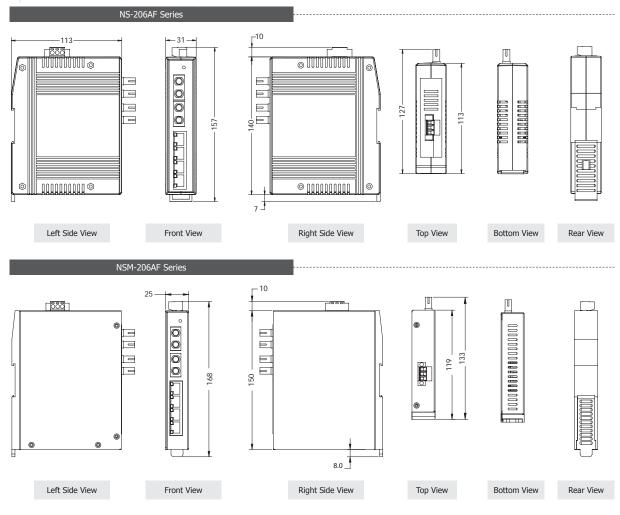
F.G. : F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.







- *Dimensions (Units: mm)*



- C- Ordering Information

| NS-206AFT-T CR | Multi-mode, ST Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS) |
|--------------------|--|
| NS-206AFC-T CR | Multi-mode, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS) |
| NS-206AFCS-T CR | Single-mode 30 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS) |
| NS-206AFCS-60T CR | Single-mode 60 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch (RoHS) |
| NSM-206AFT-T CR | Multi-mode, ST Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS) |
| NSM-206AFC-T CR | Multi-mode, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS) |
| NSM-206AFCS-T CR | Single-mode 30 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS) |
| NSM-206AFCS-60T CR | Single-mode 60 km, SC Connector, 4-port 10/100 Mbps with 2 Fiber ports Switch; metal case (RoHS) |

- d- Accessories

| MDR-60-48 | 48 V/1.25 A, 60 W Power Supply with DIN-Rail Mounting | |
|--------------|---|--|
| DIN-KA52F-48 | 48 V/0.52 A, 25 W Power Supply with DIN-Rail Mounting | |
| KA52F-48 | 48 V/0.52 A, 25 W Power Supply | |