

NS-205AF Series/NSM-205AF Series NEW

4-port 10/100 Mbps Ethernet with 1 Fiber Port Switch

NS-206AF Series/NSM-206AF Series NEW

4-port 10/100 Mbps Ethernet with 2 Fiber Ports Switch

NS-205AFC-T/FCS-T/FCS-60T

NS-206AFT-T

NSM-205AFC-T/FCS-T/FCS-60T

NSM-206AFT-T



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Unmanaged Ethernet Switches

NS(M)-205AF/NS(M)-206AF Series

| | | | | | | | | | |
|--|---|----------------|---|----|-----|------|------|---|---|
| LAN x 4 | Wide Temperature -30 ~ +75 | DIN-Rail Mount | Wide Input Voltage +12 ~ +48 | CE | FCC | RoHS | WEEE | For NS(M)-205AF 100Base-FX x 1 | For NS(M)-206AF 100Base-FX x 2 |
|--|---|----------------|---|----|-----|------|------|---|---|

Features ▶▶▶

- Provides 1 x 100-FX fiber port for NS-205AF/NSM-205AF series
- Provides 2 x 100-FX fiber ports for NS-206AF/NSM-206AF series
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- Supports operating temperatures from -30 °C ~ +75 °C
- Automatic MDI/MDI-X crossover for plug-and-play
- Store-and-forward architecture
- Redundant dual +12 V_{DC} ~ +48 V_{DC} power inputs
- DIN-Rail Mounting

Introduction

The NS-206AF/NSM-206AF is a 4-port unmanaged Ethernet with 2 fiber ports 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-205AF/NSM-205AF/NS-206AF/NSM-206AF provides a wide +12 V_{DC} ~ +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 Fiber Switch

| Mode Name | NS-205F NS-206F | NSM-205F NSM-206F | NS-205AF NS-206AF | NSM-205AF NSM-206AF |
|--------------------------------------|---|---------------------------------------|---|------------------------|
| PoE | - | | | |
| Input Voltage Range | +10 V _{DC} ~ +30 V _{DC} | | +12 V _{DC} ~ +48 V _{DC} | |
| 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 L x H) (Unit: mm) | 64 x 98 x 110 | 73 x 102 x 110 | 31 x 127 x 157 | 25 x 133 x 168 |

Specifications

| Models | NS-205AF Series | NS-206AF Series | NSM-205AF Series | NSM-206AF Series |
|--|--|---|----------------------------|-----------------------------|
| Technology | | | | |
| Standards | IEEE 802.3, 802.3u, 802.3x | | | |
| Processing Type | Store & forward; wire speed switching | | | |
| MAC Addresses | 1024 | | | |
| Memory Bandwidth | 2.0 Gbps | | | |
| Frame Buffer Memory | 512 Kbit | | | |
| Flow Control | IEEE 802.3x flow control | | | |
| Ethernet Interface | | | | |
| RJ-45 Ports | 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 | | | |
| Ethernet Isolation | 1500 V _{rms} 1 minute | | | |
| +/-4 kV ESD Protection | Yes | | | |
| Fiber Interface (100 Base-FX; SC/ST type) | | | | |
| Multi-Mode | NS-205AFT-T NS-205AFC-T NSM-205AFT-T NSM-205AFC-T NS-206AFT-T NS-206AFC-T NSM-206AFT-T NSM-206AFC-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 1310 nm 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-205AFCS-T NSM-205AFCS-T 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 1310 nm 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-205AFCS-60T NSM-205AFCS-60T 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 1310 nm 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 V _{dc} ~ +48 V _{dc} (Redundant input) | | | |
| Power Consumption | 0.2 A @ 24 V _{dc} | 0.14 A @ 24 V _{dc} | 0.2 A @ 24 V _{dc} | 0.14 A @ 24 V _{dc} |
| Protection | Power reverse polarity protection | | | |
| +/-4 kV ESD Protection | Yes | | | |
| Connector | 6-Pin Removable Terminal Block | | | |
| Mechanical | | | | |
| Casing | Plastic (Flammability UL 94V-0) | | Metal (IP30 Protection) | |
| Dimensions (W x L x H) | 31 mm x 127 mm x 157 mm | | 25 mm x 133 mm x 168 mm | |
| Installation | DIN-Rail Mounting | | | |
| Environmental | | | | |
| Operating Temperature | -30 °C ~ +75 °C | | | |
| Storage Temperature | -40 °C ~ +85 °C | | | |
| Ambient Relative Humidity | 10% ~ 90% RH, non-condensing | | | |