NS-206F Series/NSM-206F Series

4-port 10/100 Mbps Ethernet with dual fiber port Switch

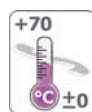| NS-206FC/FCS | NS-206FT | NSM-206FC/FCS | NSM-206FT |

Highlight Information ▶▶▶▶

| 10/100 LAN x 4 | Fiber Optic 100Base-FX x 2 | +70 °C ±0 | CE | FC | RoHS | |

For NSM-206F series

Wall & DIN-Rail Mount | Alarm Contact

For NS-206F series

DIN-Rail Mount

Features ▶▶▶▶

- Provides 2 x 100-FX fiber port 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
- Store-and-forward architecture
- Supports operating temperatures from 0 ~ +70 °C

Introduction

The NS-206F/NSM-206F is a 4-port unmanaged Ethernet with dual 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 15 km) ransmissions.
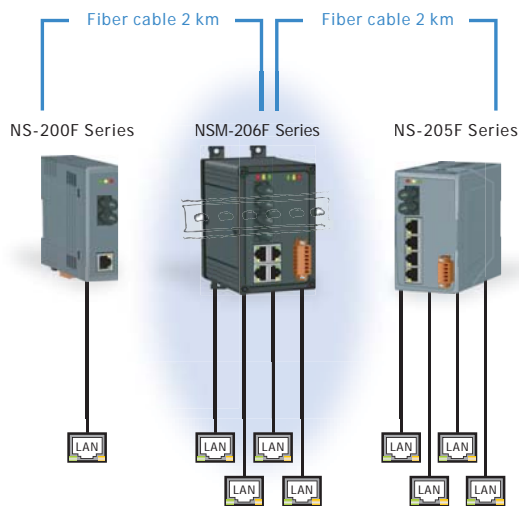
The NS-206F/NSM-206F provides a wide 10 to 30 V_{DC} power range to fit all the common power standards found in industrial automation, without external power converters. The wide power input lowers installation and maintenance costs.
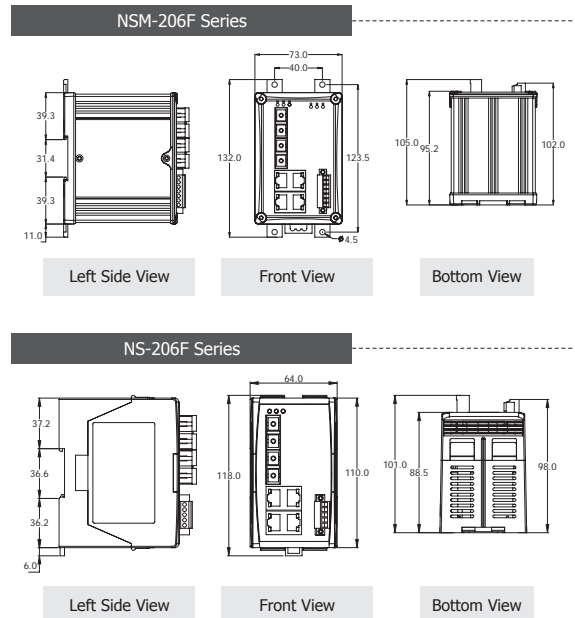
Specifications

Models	NS-206F Series	NSM-206F Series
Technology		
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward; wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	1.6 Gbps	
Frame Buffer Memory	256 Kbit	
Flow Control	IEEE 802.3x flow control, back pressure 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	
Fiber Interface (100 Base-FX; SC/ST type)		
Multi-Mode	NS-206FT/NS-206FC NSM-206FT/NSM-206FC	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: -34 dBm
Single-Mode	NS-206FCS/NSM-206FCS	Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 15 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: -36 dBm

Models	NS-206F Series	NSM-206F Series
Power Input		
Input Voltage Range	+10 ~ +30 V$_{DC}$ (Redundant input)	+10 ~ +30 V$_{DC}$ (Redundant input) One relay output with current carrying capacity of 1 A @ 30 V$_{DC}$
Power Consumption	0.24 A @ 24 V$_{DC}$	
Protection	Power reverse polarity protection	
+/-4 kV ESD Protection	Yes	
Connector	5-Pin Removable Terminal Block	7-Pin Removable Terminal Block
Mechanical		
Casing	Plastic (Flammability UL 94V-0)	Metal (IP20 Protection)
Dimensions (W x L x H)	64 mm x 101 mm x 118 mm	73 mm x 105 mm x 132 mm
Installation	DIN-Rail Mounting	DIN-Rail Mounting or Wall Mounting
Environmental		
Operating Temperature	0 °C ~ +70 °C	
Storage Temperature	-20 °C ~ +85 °C	
Ambient Relative Humidity	10% ~ 90% RH, non-condensing	

Fiber Daisy Chain Configuration

Fiber cable 2 km

Fiber cable 2 km

NS-200F Series   NSM-206F Series   NS-205F Series

Dimensions (Units: mm)

NSM-206F Series

73.0
40.0
39.3
31.4
132.0   123.5
39.3
11.0
105.0 95.2   102.0
4.5

Left Side View   Front View   Bottom View

NS-206F Series

64.0
37.2
36.6
113.0   110.0
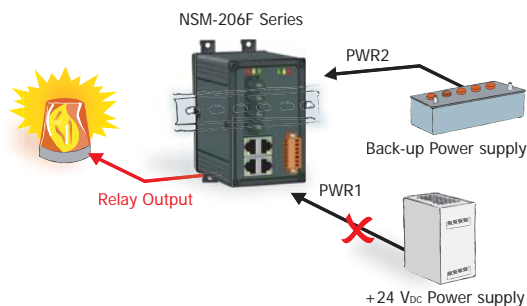36.2
101.0 88.5   98.0
6.0

Left Side View   Front View   Bottom View

Redundant Power Input for NSM-206F 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 NSM-206F series power needs.

NSM-206F Series

PWR2

Back-up Power supply

Relay Output

PWR1

+24 V$_{DC}$ Power supply

Ordering Information

NS-206FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with dual fiber port Switch (RoHS)
NS-206FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with dual fiber port Switch (RoHS)
NS-206FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with dual fiber port Switch (RoHS)
NSM-206FT CR	Multi-mode, ST Connector, 4-port 10/100 Mbps with dual fiber port Switch; metal case (RoHS)
NSM-206FC CR	Multi-mode, SC Connector, 4-port 10/100 Mbps with dual fiber port Switch; metal case (RoHS)
NSM-206FCS CR	Single-mode 15 km, SC Connector, 4-port 10/100 Mbps with dual fiber port Switch; metal case (RoHS)

Accessories

MDR-60-24	24 V/2.5 A, 60 W Power Supply with DIN-Rail Mounting
MDR-20-24	24 V/1 A, 24 W Power Supply with DIN-Rail Mounting
DIN-KA52F	24 V/1.04 A, 25 W Power Supply

3

Unmanaged Ethernet Switches