

Unmanaged 4-Port Industrial 10/100 Base-TX with Dual 100 Base-FX Fiber Switch

Highlight Information NS-206F/NSM-206F Series NSM-206F Series NS-206F Series (ϵ) FC Fiber +70Optic ĺ LAN x4 x2 For NSM-206F Series Wall & Alarm DIN-Rail Contact Mount 10 For NS-206F Series DTN-Rail Mount 000

Introduction

The NS-206F/NSM-206F series is a Unmanaged 4-Port Industrial 10/100 Base-TX with Dual 100 Base-FX Switch that secures data transmission by using fiber optic transmission to provide immunity from EMI/RFI interference. It is used Ethernet for transmitting a signal up to 2 km (6,600 ft), and is the perfect solution for applications where transmission must be protected from electrical exposure, surges, lightning or chemical corrosion.

The NS-206FT can extend your LAN in a daisy chain configuration. Please refer to Hardware. The Ethernet supports 10/100M auto negotiation feature and auto MDI/MDI-X function.

Features

- Automatic MDI/MDI-X crossover for plug-and-play
- Each port supports both 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x and half duplex backpressure flow control
- 1.6 Gbps high performance memory bandwidth
- Frame buffer memory: 256 Kbit
- Integrated look-up engine with dedicated 1024 unicast MAC addresses
- Supports +10 V_{DC} ~ +30 V_{DC}
- \blacksquare Supports operating temperatures from 0 °C \sim +70 °C
- Din-Rail

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			
Interface				
RJ-45 Ports	10/100 Base-TX auto negotiation speed, F/H duplex mode, and auto MDI/MDI-X connection			
Fiber Port	100 Base-FX			
LED Indicators	10/100M, Link/Act, Full duplex/Half duplex (Fiber Port)			
Ethernet Isolation	1500 V _{rms} 1 minute			
Frame Ground for EMS Protection	Yes	Yes		
	Multi Mode Fiber Cables: 50/125, 62	.5/125 or 100/140 μm		
	Distance: 2 km, (62.5/125 µm recon	nmended) for full duplex		
	Wavelength: 1300 or 1310 nm			
Multi Mode	Min. TX Output: -20 dBm			
	Max. TX Output: -14 dBm			
	RX Sensitivity: -34 ~ -31 dBm			
	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			
Circula Mada	Wavelength: 1300 or 1310 nm			
Single Mode	Min. TX Output: -15 dBm			
	Max. TX Output: -8 dBm			
	RX Sensitivity: -36 ~ -31 dBm			
Ethernet Transmission Distance	Ethernet: 2-pair UTP/STP Cat.3, 4, 5, EIA/TIA-568 100 Ω			
	Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100 Ω			
Power				
Input Voltage Range	+10 $V_{DC} \sim$ +30 V_{DC} (Non-isolation)	$+10 V_{DC} \sim +30 V_{DC}$ (Non-isolation) Redundant Inputs		
Power Consumption	0.24 A @ 24 V _{DC} , +/-5% arrowed wi	th 100M Full duplex		
LED Indicator	Yes			
Protection	Power reverse polarity protection			
Frame Ground for EMS Protection	Yes			
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	DIN-Rail or Wall Mounting		
Environmental				
Operating Temperature	0 °C ~ +70 °C			
Storage Temperature	-20 °C ~ +85 °C			
Ambient Relative Humidity	10% ~ 90% RH, non-condensing			

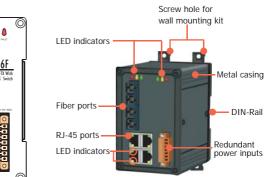


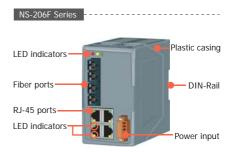
• LED Functions

NSM-206F Series LED Indicator Functions				
LED	Color	Description		
PWR_OK	Red On	Core Power is OK		
		Core Power is Off		
Full for P0	Green On			
		Not Networking		
Link for P1	Yellow On			
		Not Networking		
	Green On			
Ethernet Port		Not Networking		
(P2 ~ P5)		Link to 100 Mbps		
	Yellow Off	Link to 10 Mbps		
	Green On	Power is being supplied to power input PWR2		
PWR2 PWR1 FAULT	Green Off	Power is not being supplied to power input PWR2		
	Yellow On	Power is being supplied to power input PWR1		
	Yellow Off	Power is not being supplied to power input PWR1		
	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		

Applications





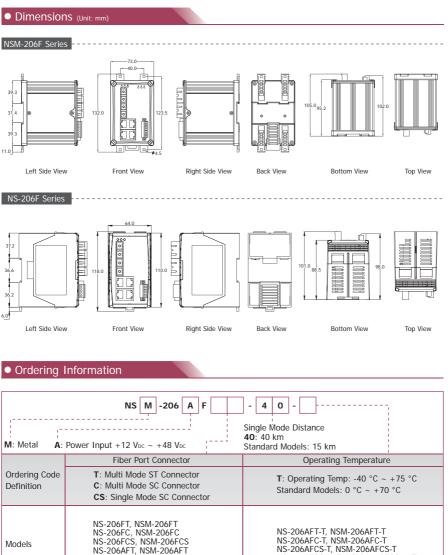


DIN-Rail

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NS-206F Series LED Indicator Functions				
LED	Color	Description		
Power	Red On	Power is On		
	Red Off	Power is Off		
Fiber Port (P0)	Green On	Link/Act		
	Green Off	Not Networking		
Fiber Port (P1)	Yellow On	Link/Act		
	Yellow Off	Not Networking		
Ethernet Port	Green On	Link/Act		
	Green Off	Not Networking		
(P2 ~ P5)	Yellow On	Link to 100 Mbps		
	Yellow Off	Link to 10 Mbps		

High Reliability Industrial Ethernet Switch for Rugged Environment



NS-206AFCS-T, NSM-206AFCS-T NS-206AFCS-40T, NSM-206AFCS-40T

Accessories

MDR-20-24	24V/1A, 24 W Power Supply with DIN-Rail Mounting
KWM020-1824F	24V/0.75A, 18 W Power Supply
DIN-KA52F	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting

NS-206AFC, NSM-206AFC NS-206AFCS, NSM-206AFCS