

NS-200WDM Series

Industrial Single-Strand 10/100 Base-TX to 100 Base-FX Media Converter





















Features >>>

- Automatic MDI/MDI-X crossover for plug-and-play
- Supports both 10/100 Mbps speed auto negotiation
- Store-and-forward architecture
- Full duplex IEEE 802.3x flow control

- MAC addresses 1024
- Supports +12 V_{DC} ~ +48 V_{DC}
- Supports operating temperatures from 0 °C ~ +70 °C
- Slim packaging fits on your DIN-Rail Mounting

Introduction

Using the fiber optic medium for Ethernet applications has become more popular due to fiber optic's excellent physical features, especially for long distance networks. However, fiber optic cable is very expensive, so if we can apply a solution that uses only 1 cable instead of 2, the infrastructure cost can be cut in half. The NS-200WDM series provides a solution that reduces your expense by 50%!

The NS-200WDM series of Single-Strand Fiber Converters supports Wavelength Division Multiplexing (WDM) technology that allows two independent data communication channels to transmit and receive over one standard, single-mode, fiber optic line. This not only doubles your existing bandwidth, but also effectively reduces the cost of creating a new fiber optic infrastructure.

50% Cost Saving for Fiber Optic Infrastructures

With a pair of NS-200WDM series products (NS-200WDM-A and NS-200WDM-B), you can double the utilization of your existing, costly fiber optic cable, and save 50% of the cost of a newly installed fiber optic application.

The width of the NS-200WDM is just 33 mm, so it can be used where space is limited.



Specifications

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Technology	logy	
Standards	IEEE 802.3, 802.3u, 802.3x	
Processing Type	Store & forward, wire speed switching	
MAC Addresses	1024	
Memory Bandwidth	1.4 Gbps	
Frame Buffer Memory	256 Kbit	
Flow Control	IEEE 802.3x flow control	

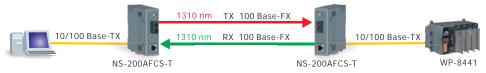
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Interface		
RJ-45 Port		10/100 Base-TX auto negotiation speed, and auto MDI/MDI-X connection
Fiber Port		100 Base-FX (Single-mode; SC Connector)
LED Indicators		10/100M, Link/Act, Full duplex/Half duplex (Fiber Port)
Ethernet Isolation		1500 V _{rms} 1 minute
Frame Ground for EMS Protection		Yes
Interface		
	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	TX: 1310, RX: 1550 nm for NS-200WDM-A
Single-mode	waveleligtii	TX: 1550, RX: 1310 nm for NS-200WDM-B
	Min. TX Output	-14 dBm
	Max. TX Output	-8 dBm
	RX Sensitivity	-31 dBm
Ethernet	Ethernet	2-pair UTP/STP Cat.3, 4, 5, EIA/TIA-568 100 Ω
Transmission Distance	Fast Ethernet	2-pair UTP/STP Cat. 5, EIA/TIA-568 100 Ω
Power		
Input Voltage Range		+12 V _{DC} ~ +48 V _{DC} (Non-isolated)
Power Consumption		0.12 A @ 24 Vbc
LED Indicator		Yes
Protection		Power reverse polarity protection
Frame Ground for EMS Protection		Yes
Connector		3-Pin Removable Terminal Block
Mechanical		
Casing		Plastic (Flammability UL 94V-0)
Dimensions (W x L x H)		33 mm x 85 mm x 107 mm
Installation		DIN-Rail Mounting
Environmental		
Operating Temperature		0 °C ~ +70 °C
Storage Temperature		-20 °C ~ +85 °C
Ambient Relativ	ve Humidity	10% ~ 90% RH, non-condensing



General Media Converter Solution

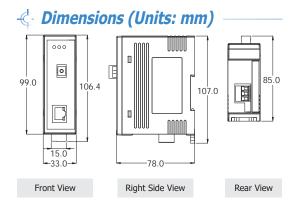
A general media converter requires a pair of fiber optic cables for data transmission and receiving.



Single-Strand Fiber Converter Solution

Wavelength Division Multiplexing (WDM) supports bi-directional data transmission and receiving using dual wavelengths (1310/1550 nm) over a single strand, of single-mode optical fiber.





Ordering Information

	NS-200WDM-A CR	10/100 Base-TX to 100 Base-FX Single-Strand Media	
		Converter, TX 1310 nm, RX 1550 nm, SC (RoHS)	
	NS-200WDM-B CR	10/100 Base-TX to 100 Base-FX Single-Strand Media	
		Converter, TX 1550 nm, RX 1310 nm, SC (RoHS)	
	Important Note:		
	You must purchase both NS-200WDM-A and NS-200WDM-B since these		
	products work as a pair.		

- Accessories

GPSU06U-6	24V/0.25A, 6 W Power Supply
DIN-KA52F	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting

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