ICP Electronics
Australia Pty Ltd

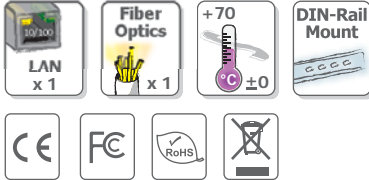TEL: 02 9457 6011
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NS-200WDM Series NEW

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

Highlight Information ▶▶▶▶

10/100
LAN
x 1

Fiber Optics
x 1

+70
°C ±0

DIN-Rail Mount

CE   FC   RoHS

NS-200WDM-A   NS-200WDM-B

● 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.
It contains "soft start" function with overload protection, high-low voltage protection.
The width of the NS-200WDM is just 33 mm, so it can be used where space is important.

● 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 and half duplex backpressure flow control
■ 1.4 Gbps high performance memory bandwidth

■ Integrated look-up engine with dedicated 1024 unicast MAC addresses
■ Supports +12 V_{DC} ~ +48 V_{DC} Reverse Polarity Protection
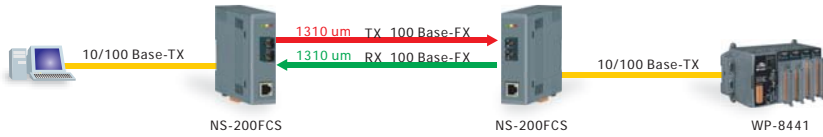■ Supports operating temperatures from 0 °C ~ +70 °C
■ DIN-Rail

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High Reliability Industrial Ethernet Switch for Rugged Environment

● Specifications

Technology	
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, back pressure flow control
Interface	
RJ-45 Port	10/100 Base-TX auto negotiation speed, F/H duplex mode, 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
Single Mode	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 TX: 1550, RX: 1310 nm for NS-200WDM-B
	Min. TX Output: -14 dBm
	Max. TX Output: -8 dBm
	RX Sensitivity: -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	+12 V$_{DC}$ ~ +48 V$_{DC}$ (Non-isolation)
Power Consumption	0.12 A @ 24 V$_{DC}$, +/-5% arrowed with 100M Full duplex
LED Indicator	Yes
Protection	Power reverse polarity protection
Frame Ground for EMS Protection	Yes
Connection	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
Environmental	
Operating Temperature	0 °C ~ +70 °C
Storage Temperature	-20 °C ~ +85 °C
Ambient Relative Humidity	10% ~ 90% RH, non-condensing

Media Converters   NS-200WDM Series

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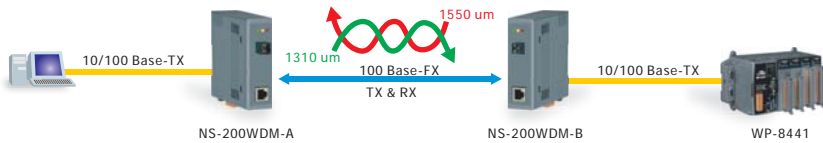sales@icp-australia.com.au
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● Applications

General Media Converter Solution

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

10/100 Base-TX

1310 um TX 100 Base-FX
1310 um RX 100 Base-FX

10/100 Base-TX

NS-200FCS   NS-200FCS   WP-8441
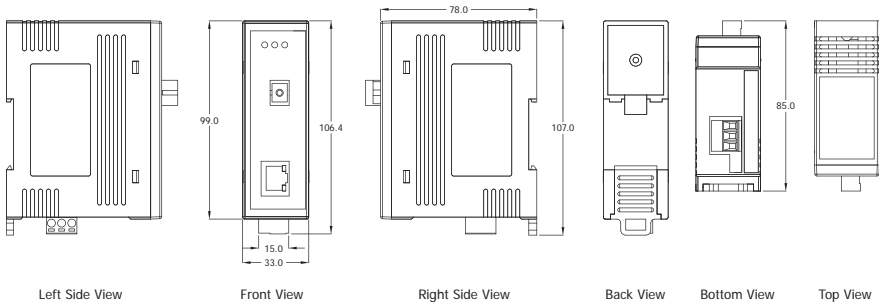
Single-Strand Fiber Converter Solution

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.

10/100 Base-TX

1550 um
1310 um   100 Base-FX
          TX & RX

10/100 Base-TX

NS-200WDM-A   NS-200WDM-B   WP-8441

● Dimensions (Unit: mm)

78.0
99.0   106.4   107.0
85.0
15.0
33.0

| Left Side View | Front View | Right Side View | Back View | Bottom View | Top View |

● 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

GPSU06-6	24V/0.25A, 6 W Power Supply
KWM020-1824F	24V/0.75A, 18 W Power Supply
DIN-KA52F	24V/1.04A, 25 W Power Supply with DIN-Rail Mounting