Media Converters

NS-200WDM

Media Converters

NS-200WDM ***

Industrial Single-Strand 10/100 Base-T(X) to 100 Base-FX Media Converter

Highlight Information ▶▶▶



x 1















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 32mm, so it can be used where space is important.

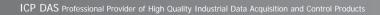
Features

- 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
- 1.4Gbps high performance memory bandwidth
- Integrated look-up engine with dedicated 1 K unicast MAC addresses
- Supports +10~+30Vdc voltage **Reverse Polarity Protection**
- Supports operating temperatures from 0 ~ +70°C
- DIN-Rail















High Reliability Industrial Ethernet Switch for Rugged Environment

Specifications

Standards IEEE802.3, 802.3u, 802.3u Processing Type Store & forward wire speed switching - no delays MAC Addresses 1024 Memory Bandwidth 1.4 Gbps Flow Control IEEE802.3x flow control, back pressure flow control Interface RJ-45 Port	Technology				
MAC Addresses 1024	Standards	IEEE802.3, 802.3u, 802.3x			
Memory Bandwidth 1.4 Gbps Flow Control IREE802.3x flow control, back pressure flow control Interface RJ-45 Port 10/100BaseFT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection Fiber Port 100 Base-FX(Single-mode; SC connector) LED Indicators 10/100M, Link/Act, Full duplex/Half duplex(Fiber Port) Ethernet Isolation Frame Ground for EMS Protection Fiber Optic Fiber Optic Fiber Optic 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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 5% arrowed with 100M Full duplex LED Indicator Yes Protection Power reverse polarity protection Frame Ground for EMS Protection Yes Protection 3-Pin Removable Terminal Block Mechanical Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 13mm x 107mm x 85mm Installation Environmental Operating Temperature 0°C ~ +70°C Storage Temperature 0°C ~ +85°C	Processing Type	Store & forward wire speed switching - no delays			
Flow Control IEEE802.3x flow control, back pressure flow control Interface	MAC Addresses	1024			
Interface 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection 10/100M, Link/Act, Full duplex/Half duplex(Fiber Port) 10/100M, Link/Act, Full duplex/Half duplex(Fiber Port) 1500 Vrms 1 minute 1500 Vrms 1 minute	Memory Bandwidth	1.4 Gbps			
RJ-45 Port 10/100BaseT(X) auto negotiation speed, F/H duplex mode, and auto MDI/MDIX connection	Flow Control	IEEE802.3x flow control, back pressure flow control			
and auto MDI/MDIX connection Fiber Port 100 Base-FX(Single-mode; SC connector) 110 Indicators 10/100M, Link/Act, Full duplex/Half duplex(Fiber Port) 1500 Vrms 1 minute Frame Ground for EMS Protection Yes Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 15 km, (9/125 µm mrecommended) 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: -3 dBm RX Sensitivity: -31 dBm Ethernet Transmission distance Fast Ethernet: 2-pair UTP/STP Cat. 3,4,5, EIA/TIA-568 100-ohm fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Interface				
LED Indicators 10/100M, Link/Act, Full duplex/Half duplex(Fiber Port) Ethernet Isolation 1500 Vrms 1 minute Yes Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 μm Distance: 15 km, (9/125 μm mrecommended) 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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	RJ-45 Port				
Ethernet Isolation 1500 Vrms 1 minute Frame Ground for EMS Protection Yes Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 15 km, (9/125 µm mrecommended) 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: -31 dBm Ethernet Transmission Ethernet: 2-pair UTP/STP Cat. 3,4,5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range	Fiber Port	100 Base-FX(Single-mode; SC connector)			
Frame Ground for EMS Protection Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 µm Distance: 15 km, (9/125 µm mrecommended) 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: -31 dBm Ethernet Transmission distance Ethernet: 2-pair UTP/STP Cat. 3, 4, 5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	LED Indicators				
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Distance: 15 km, (9/125 µm mrecommended) 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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Frame Ground for EMS Protection	Yes			
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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C		Single-mode fiber cables: 8.3/125, 8.7/125, 9/125 or 10/125 μm			
Fiber Optic 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 Fast Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C		Distance: 15 km, (9/125 µm mrecommended) for full duplex			
TX: 1550, RX: 1310 nm for NS-200WDM-B Min. TX Output: -14 dBm Max. TX Output: -31 dBm Ethernet Transmission distance Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C		Wavelength:			
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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Fiber Optic	TX: 1310, RX: 1550 nm for NS-200WDM-A			
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-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C		TX: 1550, RX: 1310 nm for NS-200WDM-B			
RX Sensitivity: -31 dBm Ethernet Transmission distance Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range		Min. TX Output: -14 dBm			
Ethernet Transmission distance Ethernet: 2-pair UTP/STP Cat. 3, 4, 5, EIA/TIA-568 100-ohm Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range		Max. TX Output: -8 dBm			
Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power Input Voltage Range		RX Sensitivity: -31 dBm			
Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm Power	Ethernet Transmission	Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm			
Input Voltage Range +10 ~ +30VDC (Non-isolation) Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C		· · · · · · · · · · · · · · · · · · ·			
Power Consumption 0.12A@24VDC, +/- 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 Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Power				
LED IndicatorYesProtectionPower reverse polarity protectionFrame Ground for EMS ProtectionYesConnection3-Pin Removable Terminal BlockMechanicalMechanicalCasePlasticFlammabilityUL 94V-0Dimensions (W x H x D)33mm x 107mm x 85mmInstallationDIN-RailEnvironmentalOperating TemperatureOperating Temperature0°C ~ +70°CStorage Temperature-20°C ~ +85°C	Input Voltage Range	+10 ~ +30VDC (Non-isolation)			
Protection Power reverse polarity protection Frame Ground for EMS Protection Yes Connection 3-Pin Removable Terminal Block Mechanical Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Power Consumption	0.12A@24VDC, +/- 5% arrowed with 100M Full duplex			
Frame Ground for EMS Protection Connection 3-Pin Removable Terminal Block Mechanical Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	LED Indicator	Yes			
Connection 3-Pin Removable Terminal Block Mechanical Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Protection	Power reverse polarity protection			
Mechanical Case Plastic Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature 0°C ~ +70°C Storage Temperature -20°C ~ +85°C	Frame Ground for EMS Protection	Yes			
CasePlasticFlammabilityUL 94V-0Dimensions (W x H x D) $33mm \times 107mm \times 85mm$ InstallationDIN-RailEnvironmentalOperating Temperature $0^{\circ}C \sim +70^{\circ}C$ Storage Temperature $-20^{\circ}C \sim +85^{\circ}C$	Connection	3-Pin Removable Terminal Block			
Flammability UL 94V-0 Dimensions (W x H x D) 33mm x 107mm x 85mm Installation DIN-Rail Environmental Operating Temperature $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Mechanical				
Dimensions (W x H x D) $33\text{mm} \times 107\text{mm} \times 85\text{mm}$ InstallationDIN-RailEnvironmental $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Case	Plastic			
InstallationDIN-RailEnvironmental $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Flammability	UL 94V-0			
Environmental Operating Temperature $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Dimensions (W x H x D)	33mm x 107mm x 85mm			
Operating Temperature $0^{\circ}\text{C} \sim +70^{\circ}\text{C}$ Storage Temperature $-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$	Installation	DIN-Rail			
Storage Temperature -20°C ~ +85°C	Environmental				
	Operating Temperature	0°C ~ +70°C			
Ambient Relative Humidity 10% to 90% non-condensing	Storage Temperature	-20°C ~ +85°C			
	Ambient Relative Humidity	10% to 90% non-condensing			



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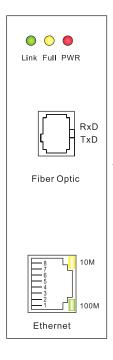
Media Converters

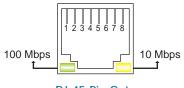
LED Functions

Standard RJ-45 female connectors are provided. A standard RJ-45 plug cable is necessary to connect your device to the unit since switch that supports auto crossover.

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LED	Color	Description		
PWR	Red	Power is On		
PVVK	Off	Power is Off		
Fiber Optic	Yellow_On	Full Duplex Mode		
	Yellow_Off	Half Duplex Mode		
	Green_On	Link/Act		
	Green_Off	Not Networking		
	Yellow	Link to 10 Mbps		
Ethernet	Green	Link to 100 Mbps		
	Off	Not Networking		





RJ-45 Pin-Out Signal Pin# **Function** Name TD+ Transmit Data 1 2 TD-Transmit Data RD+ Receive Data 3 NC No Connection 4 5 NC No Connection RD-Receive Data 6 7 NC No Connection NC No Connection

Pin Function for Terminal Block

External power supply is connected using the removable terminal block:

+Vs: Power input +10 to +30V

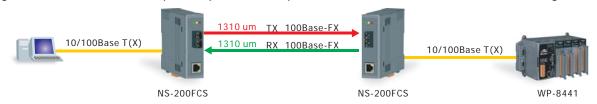
GND: Ground

F.G.: F.G. stands for Frame Ground (protective ground). It is optional. If you use this pin, it can reduce EMI radiation; improve EMI performance and ESD protection.

Applications

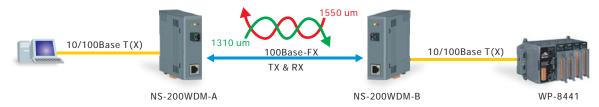
General Media Converter Solution

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.



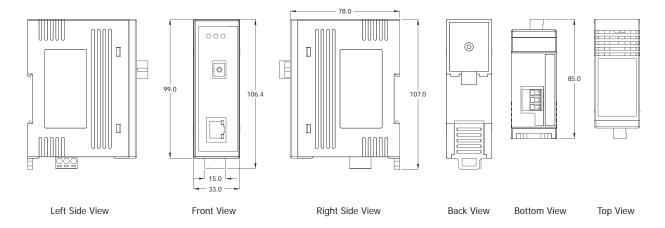


Appearance



High Reliability Industrial Ethernet Switch for Rugged Environment

• Dimensions (Unit: mm)



Ordering Information

NC 200MDM A CD	10/100BaseT(X) to 100BaseFX Single-Strand Media Converter,	
NS-200WDM-A CR	TX 1310 nm, RX 1550 nm, SC (RoHS)	
NS-200WDM-B CR	10/100BaseT(X) to 100BaseFX 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 Power Supply, (No-mounting)	
KWM020-1824F	24V/0.75A Power Supply, (No-mounting)	
DIN-KA52F 24V/1A Power Supply, (With DIN-Rail mounting)		

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