NS-200AFT-T/AFC-T/AFCS-T/ AFCS-60T

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



Introduction:

The NS-200AF series is a Ethernet (10/100 Base-TX) to Media (100 Base-FX) converter. The Ethernet supports 10/100M auto negotiation feature and auto MDI/MDI-X function.

NS-200A can work normally from $-30 \sim 75^{\circ}$ C and accepts a wide voltage range from $+12 \sim 48$ VDC.

Features:

- Automatic MDI/MDI-X crossover for plug-and-play
- Supports both 10/100 Mbps speed auto negotiation
- · Store-and-forward
- Full duplex IEEE 802.3x
- Supports +12 ~ +48 VDC voltage
- Supports operating temperatures range -30 ~ 75°C
- DIN-Rail

Specifications:

Technology	
Standards	EEE802.3, 802.3u, 802.3x
Processing Type	Store & forward; wire speed switching
MAC Addresses	1024
Memory Bandwidth	1.4 Gbps
Interface	
RJ-45 Port	10/100BaseT(X) auto negotiation speed, Full duplex mode, and auto MDI/MDI-X connection
Fiber Port	100 Base-FX (SC/ST connectors)
LED Indicators	10/100M, Link/Act, Full duplex for Fiber Port
Ethernet Isolation	1500 Vrms 1 minute
Frame Ground for EMS Protection	Yes
Multi Mode (NS-200AFT-T, NS-200AFC-T)	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
	RX Sensitivity: -32 dBm
Single Mode	Single-mode fiber cables: 9/125µm
(NS-200AFCS-T, NS-200AFCS-60T)	Distance: 30 km for NS-200AFCS-T
	Distance: 60 km for NS-200AFCS-60T
	Wavelength: 1300 ~ 1310nm
	Min. TX Output: - 15 dBm for NS-200AFCS-T
	Min. TX Output: - 5 dBm for NS-200AFCS-60T
	Max. TX Output: -8 dBm for NS-200AFCS-T

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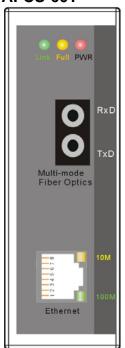
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Max. TX Output: 0 dBm for NS-200AFCS-60T	
RX Sensitivity: -34 dBm for NS-200AFCS-T	
RX Sensitivity: -35 dBm for NS-200AFCS-60T	
Ethernet: 2-pair UTP/STP Cat.3,4,5, EIA/TIA-568 100-ohm	
Fast Ethernet: 2-pair UTP/STP Cat. 5, EIA/TIA-568 100-ohm	
Power	
+12 ~ +48 VDC (Non-isolation)	
0.12A@24 VDC	
Yes	
Power reverse polarity protection	
Yes	
Plastic (Flammability UL 94V-0)	
33mm x 85mm x 107mm	
DIN-Rail	
-30°C ~ +75°C	
-30 ~ +85°C	
10% ~ 90% HR, non-condensing	

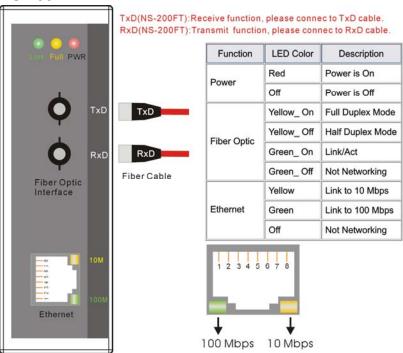
LED functions:

Standard RJ45 female connectors are provided. A standard RJ45 plug cable is necessary to connect your device to the unit since switch that supports auto crossover. Figure 1 shows the LED indicator functions. The module includes an internal.

Figure1: NS-200AFC-T/AFCS-T/ AFCS-60T



NS-200AFT-T



Pin Function for Terminal Block:

External power supply is connected using the removable terminal block:

+Vs : Power input (+12 ~ +48 VDC) and should be connected to the power supply (+)

GND: Ground and should be connected to the power supply (-)

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.

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