

# NS-200AF Series

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

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

NS-200AFT-T



## Highlight Information >>>



## 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
- Frame buffer memory: 256 Kbit
- 1024 MAC addresses
- Supports +10 V<sub>DC</sub> ~ +30 V<sub>DC</sub> Reverse Polarity Protection
- Supports operating temperatures from -30 °C ~ +75 °C
- Slim packaging fits on your DIN-Rail

## Introduction

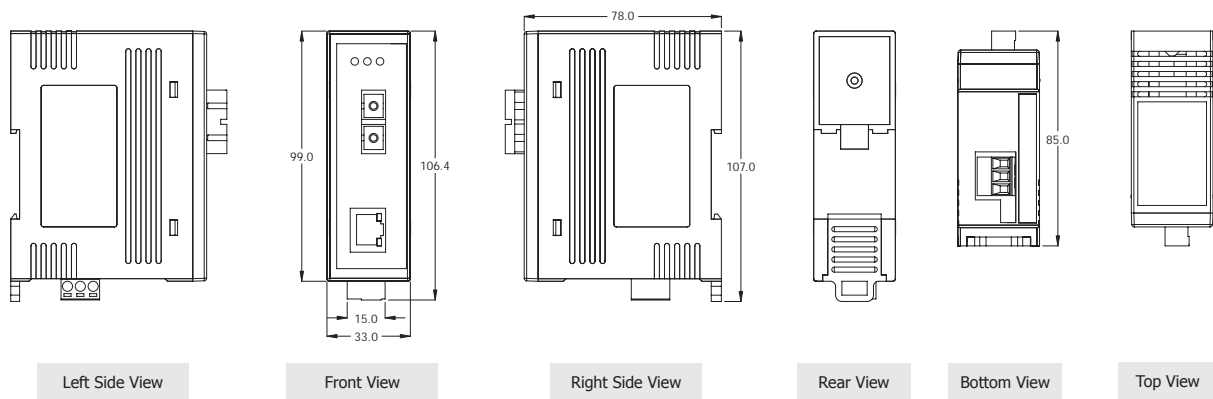
The NS-200AF series is a Ethernet (10/100 Base-TX) to Media (100 Base-FX) converter. The Ethernet supports 10/100M auto negotiation feature and auto MDI/MDI-X function. NS-200A can work normally from -30 ~ 75°C and accepts a wide voltage range from +12 ~ 48 V<sub>DC</sub>.

## Specifications

Models	NS-200AFC-T	NS-200AFT-T	NS-200AFCS-T	NS-200AFCS-60T
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			
LED Indicators	10/100M, Link/Act, Full duplex/Half duplex (Fiber Port)			
Ethernet Isolation	1500 V <sub>rms</sub> 1 minute			

Models		NS-200AFC-T	NS-200AFT-T	NS-200AFCS-T	NS-200AFCS-60T
Multi Mode	Multi mode fiber cables	50/125, 62.5/125 or 100/140 $\mu$ m		-	
	Distance	2 km, (62.5/125 $\mu$ m recommended) for full duplex		-	
	Wavelength	1300 or 1310nm		-	
	Min. TX Output	- 20 dBm		-	
	Max. TX Output	-14 dBm		-	
	Max. RX Sensitivity	-32 dBm		-	
	Max. RX Overload	-8 dBm		-	
	Budget	12 dBm		-	
Single Mode	Single-mode fiber cables	-		8.3/125, 8.7/125, 9/125 or 10/125 $\mu$ m	
	Distance	-		30 Km	60 Km
	Wavelength	-		1300 or 1310nm	
	Min. TX Output	-		- 15 dBm	-5 dBm
	Max. TX Output	-		-8 dBm	0 dBm
	Max. RX Sensitivity	-		-34 dBm	-35 dBm
	Max. RX Overload	-		-5 dBm	
	Budget	-		19 dBm	30 dBm
Ethernet Transmission Distance	Ethernet	2-pair UTP/STP Cat.3, 4, 5, EIA/TIA-568 100 $\Omega$			
	Fast Ethernet	2-pair UTP/STP Cat. 5, EIA/TIA-568 100 $\Omega$			
<b>Power</b>					
Input Voltage Range	+12 Vdc ~ +48 Vdc (Non-isolation)				
Power Consumption	0.12 A @ 24 Vdc				
LED Indicator	Yes				
Protection	Power reverse polarity protection				
Frame Ground for EMS Protection	Yes				
<b>Mechanical</b>					
Casing	Plastic (Flammability UL 94V-0)				
Dimensions (W x L x H)	33 mm x 85 mm x 107 mm				
Installation	DIN-Rail				
<b>Environmental</b>					
Operating Temperature	-30 $^{\circ}$ C ~ +75 $^{\circ}$ C				
Storage Temperature	-30 $^{\circ}$ C ~ +85 $^{\circ}$ C				
Ambient Relative Humidity	10% ~ 90% RH, non-condensing				

**Dimensions (Units: mm)**



**Ordering Information**

NS-200AFC-T CR	Industrial 10/100 Base-T to 100 Base-FX Media Converter; 1 multi mode, SC connector (RoHS)
NS-200AFT-T CR	Industrial 10/100 Base-T to 100 Base-FX Media Converter; 1 multi mode, ST connector (RoHS)
NS-200AFCS-T CR	Industrial 10/100 Base-T to 100 Base-FX Media Converter; 1 single mode, SC connector (RoHS)
NS-200AFCS-60T CR	Industrial 10/100 Base-T to 100 Base-FX Media Converter; 1 (60 km) single mode, SC connector (RoHS)

**Accessories**

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