

10/100/1000M Media Converter NNM-13M-20D

10/100/1000M SM Dual Fiber, 1G, 1310NM, 20km SC NNM-13M-20D

Overview:

10/100/1000M adaptive fast Ethernet optical Media Converter is a new product used for optical transmission via high-speed Ethernet. It is capable of switching between twisted pair and optical and relaying across 10/100 Base-TX/1000 Base-Fx and 1000Base-FX network segments, meeting long-distance, high-speed and high-broadband fast Ethernet workgroup users' needs, achieving high-speed remote interconnection for up to 100 km's relay-free computer data network. With steady and reliable performance, design in accordance with



Ethernet standard and lightning protection, it is particularly applicable to a wide range of fields requiring a variety of broadband data network and high-reliability data transmission or dedicated IP data transfer network, such as telecommunication, cable television, railway, military, finance and securities, customs, civil aviation, shipping, power, water conservancy and oilfield etc, and is an ideal type of facility to build broadband campus network, cable TV and intelligent broadband FTTB/FTTH networks.

Application:

- In accordance with IEEE802.3 10Base-T, IEEE802.3u 100Base-T,
 IEEE802.3ab 1000Base-T and IEEE802.3z 1000Base-FX
- Supported Ports: SC for optical fiber; RJ45 for twisted pair
- Auto-adaptation rate and full/half-duplex mode supported at twisted pair port
- Auto MDI/MDIX supported without need of cable selection
- Up to 6 LEDs for status indication of optical power port and UTP port
- External and built-in DC power supplies provided
- Up to 1024 MAC addresses supported
- 512 kb data storage integrated, and 802.1X original MAC address authentication supported
- Conflicting frames detection in half-duplex and flow control in full duplex supported

Technical Parameters:

Technical Parameters for 10/100/1000M Adaptive Fast Ethernet Optical Media Converter				
Number of Network	1 Channel			
Ports				
Number of Optical Ports	1 Channel	NETRIE		
NIC Transmission Rate	10/100/1000Mbit/s	Media Converter		
NIC Transmission Mode	10/100/1000M adaptive			
	with support for			
	automatic inversion of	111111		
	MDI/MDIX	G		
Optical Port Transmission	1000Mbit/s	_		



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Rate						
Operating Voltage	AC 220V or	DC +5V				
Overall Power	<3W					
Network Ports	RJ45 Port	RJ45 Port				
Optical Specifications	Optical Por	Optical Port: SC, FC, ST (Optional)				
	Multi-Mode	Multi-Mode: 50/125, 62.5/125um				
	Single-Mod	Single-Mode: 8.3/125,				
	8.7/125um	8.7/125um, 8/125,10/125um				
	Wavelength	Wavelength: Single-Mode: 1310/1550nm				
Data Channel	IEEE802.3x	IEEE802.3x and collision base backpressure supported				
	Working M	Working Mode: Full/half duplex supported				
	Transmissio	Transmission Rate: 1000Mbit/s				
	with error r	with error rate of zero				
Some Product Modes and port Technical Parameters of Optical Port						
Desk Type Dual-Optical Single-Mode/Multi-Mode Media Converter						
Product Mode	Wavelength	Optical	Electric	Optical	Receiving	Transmission
	(nm)	Port	Port	Power	Sensitivity	Range (km)
				(dBm)	(dBm)	
8110GMA-05-8S	850	SC	RJ-45	-8~-3	≤-19	0.55km
8110GMA-05F-3S	1310nm	SC	RJ-45	-8~-3	≤-20	0.55km
8110GSA-10F-3S	1310nm	SC	RJ-45	-8~-3	≤-24	10km
8110GSA-20F- <mark>3S</mark>	1310nm	SC	RJ-45	-8~-3	≤-24	20km
8110GSA-40F-3 <mark>S</mark>	1310nm	SC	RJ-45	-5~0	≤-24	40km
8110GSA-60D-3S	1310nm	SC	RJ-45	-2~+3	≤-24	60km
8110GSA-80D-5S	1550nm	SC	RJ-45	0~5	≤-24	80km
8110GSA-100D-5S	1550nm	SC	RJ-45	0~5	≤-30	100km
Desk Type Single-Optical Two-Way Media Converter						
Product Mode	Wavelength	Optical	Electric	Optical	Receiving	Transmission

Product Mode	Wavelength	Optical	Electric	Optical	Receiving	Transmission
	(nm)	Port	Port	Power	Sensitivity	Range (km)
				(dBm)	(dBm)	
8110GMB-05F-3S	1310nm	SC	RJ-45	-8~-3	≤-24	0.55km
8110GMB-05F-5S	1550nm	SC	RJ-45	-8~-3	≤-24	0.55km
8110GSB-10F-3S	1310nm	SC	RJ-45	-8~-3	≤-24	10km
8110GSB-10F-5S	1550nm	SC	RJ-45	-8~-3	≤-24	10km
8110GSB-20F-3S	1310nm	SC	RJ-45	-8~-3	≤-24	20km
8110GSB-20D-5S	1550nm	SC	RJ-45	-8~-3	≤-24	20km
8110GSB-40F-3S	1310nm	SC	RJ-45	-5~0	≤-24	40km
8110GSB-40D-5S	1550nm	SC	RJ-45	-5~0	≤-24	40km
8110GSB-60D-4S	1490nm	SC	RJ-45	-5~0	≤-24	60km
8110GSB-60D-5S	1550nm	SC	RJ-45	-5~0	≤-24	60km
8110GSB-80D-4S	1490nm	SC	RJ-45	0~5	≤-24	80km
8110GSB-80D-5S	1550nm	SC	RJ-45	0~5	≤-24	80km

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Operating Environment:

Operating Voltage	AC 220V/ DC +5V
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Operating Humidity:

Operating Temperature	0°C to +70°C
Storage Temperature	-20°C to +70°C
Humidity	5% to 90%

Quality Assurance:

MTBF > 100,000 hours;
Replacement within one year and non-charge repair within three years guaranteed

Application Fields:

- For intranet prepared for expansion from 100M to 1000M
- For integrated data network for multimedia such as image, voice and etc.
- For point-to-point computer data transmission
- For computer data transmission network in a wide range of business application
- For broadband campus network, cable TV and intelligent FTTB/FTTH data tape
- In combination with switchboard or other computer network facilitates for: chain-type, star-type and ring-type network and other computer networks

Instructions on Media Converter Panel

- Instructions on Front Panel
- Identification for front panel of the media converter is shown below:



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a. Identification of Media Converter

TX - transmitting terminal; RX - receiving terminal;

b. PWR

Power Indicator Light – "ON" means normal operation of DC 5V power supply adaptor.

c. 1000M Indicator Light

"ON" means the rate of the electric port is 1000 Mbps, while "OFF" means the rate is 100 Mbps.

d. LINK/ACT (FP)

"ON" means connectivity of the optical channel; "FLASH" means data transfer in the channel; "OFF" means non-connectivity of the optical channel.

e. LINK/ACT (TP)

"ON" means connectivity of the electric circuit; "FLASH" means data transfer in the circuit; "OFF" means non-connectivity of the electric circuit.

f. SD Indicator Light

"ON" means input of optical signal; "OFF" means non input.

g. FDX/COL:

"ON" means full duplex electric port; "OFF" means half-duplex electric port.

h. UTP

Non-shielded twisted pair port; Instructions on Rear Panel

There is only a DC 5V external power port on the rear panel:



Mounting Dimensions Sketch:

