

NMC-1100 series is a kind of 10/100/1000 Mbps intelligent adaptive Gigabit Ethernet / SFP media converter. It can implement data transmission between twisted pair electrical signals and optical signals which are the two type of network connection media. This type of media converter can extend the transmission distance of a network from 100m over copper wires to 120 km in which there is no help of any other converter. It should be installed in 16 rack media converter chassis when used.



Features

- Comply with IEEE802.3, IEEE802.3u 10/100Base-TX/FX, IEEE802.3z 10/100/1000Base TX/FX
- Auto-Negotiation or manual mode setting of speed and duplex mode
- Power, network speed, network TX & RX status and optical TX & RX status LED indicators
- Support Link Fault Pass Through (LFP)
- Distance up to 120Km with single-mode fiber and 2Km with multi-mode fiber
- Support WDM 1310Tx/1550Rx or 1550Tx/1310Rx

Specifications

Ethernet

Standard:	IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3z, IEEE802.1q, IEEE802.1p, IEEE802.1d Spanning Tree
Connector:	1 x RJ45 Connected to STP/UTP Cat-5 or above
MAC Table:	1K
Distance:	Cat-5 UTP: 100m
Data rate:	Fiber: 1000mbps TP: 10/100/1000mbps auto negotiation

Optical (SFP Module)

Connector:	LC
Cabling:	Multi-mode: 50/125µm or 62.5/125µm Single-mode: 9/125µm
Distance:	Multimode: 2Km Single-mode: 20/40/60/80/100/120Km
Wavelength:	1310/1550nm

Electrical & Mechanical

Power:	5V DC, 2A, max.
Dimension (HxWxD):	95 x 70 x 26mm
Weight:	0.2kg
LED Indicators:	Power, network speed, network Tx & Rx status and optical Tx & Rx status

Environmental

Operating Temp:	-10°C to +55°C
Storage Temp:	-40°C to +70°C
Humidity:	5% ~ 90% (non-condensing)
MTBF:	> 100,000 hours



Ordering Information

MODEL	WORKING WAVE-LENGTH	FIBER CONNECTOR	TX PORTS	FIBER MODE	MAX. DISTANCE
Gigabit Ethernet Media Converter with 1FX + 1TX					
NMC-1100M-05	850nm	SFP LC	RJ45	Multi-mode	550m
NMC-1100S-20	1310/1550nm	SFP LC	RJ45	Single-mode	20Km
NMC-1100S-40	1310/1550nm	SFP LC	RJ45	Single-mode	40Km
NMC-1100S-60	1310/1550nm	SFP LC	RJ45	Single-mode	60Km
NMC-1100S-80	1310/1550nm	SFP LC	RJ45	Single-mode	80Km
NMC-1100S-100	1310/1550nm	SFP LC	RJ45	Single-mode	100Km
NMC-1100S-120	1310/1550nm	SFP LC	RJ45	Single-mode	120Km
Gigabit Ethernet Media Converter with 1FX + 2TX					
NMC-1100M2TX-2	1310/1550nm	SFP LC	RJ45	Multi-mode	2Km
NMC-1100S2TX-20	1310/1550nm	SFP LC	RJ45	Single-mode	20Km
NMC-1100S2TX-40	1310/1550nm	SFP LC	RJ45	Single-mode	40Km
NMC-1100S2TX-60	1310/1550nm	SFP LC	RJ45	Single-mode	60Km
Gigabit Ethernet Media Converter with 1FX + 4TX					
NMC-1100S4TX-2	1310/1550nm	SFP LC	RJ45	Multi-mode	2Km
NMC-1100S4TX-20	1310/1550nm	SFP LC	RJ45	Single-mode	20Km
NMC-1100S4TX-40	1310/1550nm	SFP LC	RJ45	Single-mode	40Km
NMC-1100S4TX-60	1310/1550nm	SFP LC	RJ45	Single-mode	60Km
Accessories:	5V DC Power adaptor included for standalone				
Options:	SC type connector is standard. Please feel free to consult us for FC/ST connector				

- NOTES:
- (1) Transmission distance will suffer if additional losses are introduced by the optical connectors, fusions, splices and the fibers within the network.
 - (2) Operating distance of multi-mode is limited by the characteristics of the fiber bandwidth.
 - (3) Power adaptor is manufactured by third party and is supplied with DC plug.
 - (4) Please feel free consult us for any special requirement and customization.