



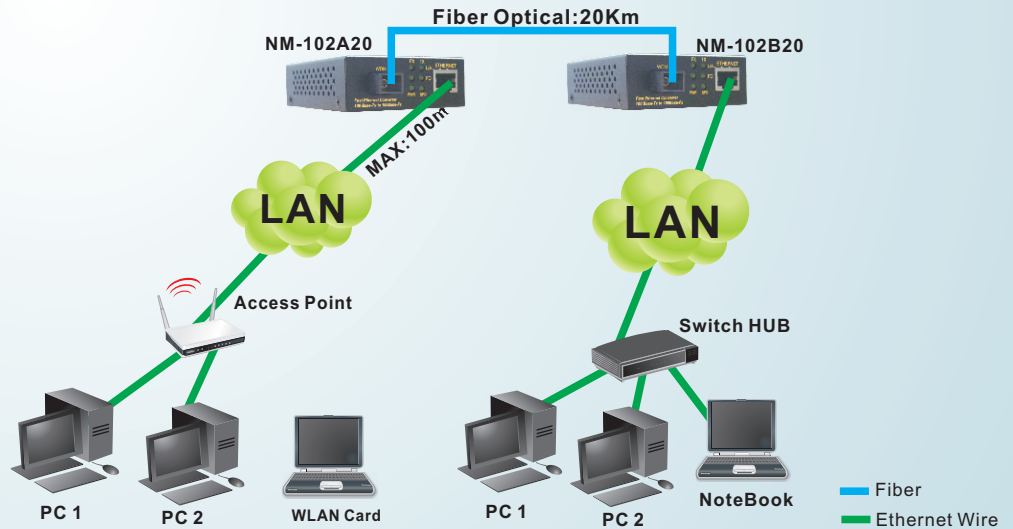
General Description



The Netsys NM-102 KIT including NM-102 A20 (Master) & NM-102 B20 (Slave) is a converter that translates transmission signals from a twisted-pair 100BASE-TX cable to 100BASE-FX fiber optic cable (UTP). The converter automatically adapts to the highest level of performance supported by the device connected to the ETHERNET port. When the device is a switch or a workstation that supports full duplex, the converter adapts to the full-duplex mode and provides an effective 200Mbps bandwidth.

When the device connected is a hub or a workstation that supports only half duplex, the converter adapts to the half-duplex mode and provides the nominal 100Mbps bandwidth. In fiber-optic interface, the port of converter operates at 1310 nm and use WDM connector. Single-mode model that supports distance up to 20-km is available.

Application Diagram

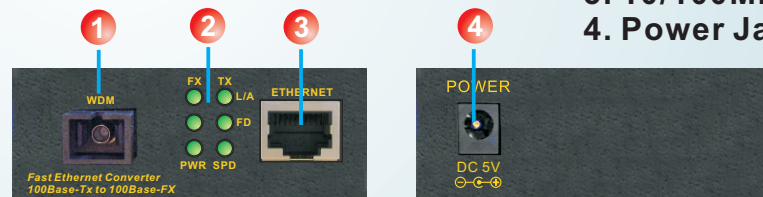


WDM duple Mode

Data rate up to 100Mbps

EMI certified by CE / FCC

Detailed View



1. WDM Mode
2. LED Indicators
3. 10/100Mbps ETHERNET Port
4. Power Jack(DC 5V In)

Order information: NM-102KIT(Media Converter Series)

For more product information, visit us on the web www.netsys.com.tw

DATA SHEET

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Key Features & Benefits

- Support auto-MDIX and 10/100Base T for RJ-45 port
- Complies with IEEE 802.3 for 10BaseT/802.3u for 100Base-TX and 100Base-FX.
- Supports WDM duple mode for TX/RX on single fiber cable
- Compact in size, easy installation
- Data Transfer Rate: 100Mbps
- Duplex mode support: Full or half-duplex mode by Auto-Negotiation
- LED indicators: PWR, LNK/ACT, SPD, FDX for copper RJ-45 LINK/ACT, FDX for Fiber optic.
- Fiber: Single Mode: 8.3/125, 8.7/125, 9/125 μ m optic fiber and up to 20km
- EMI certified by CE, FCC
- External Power Adapter: Input: AC 85~240 volts/50~60Hz. Output: DC 5V/1A

Product Specification

Model	NM-102A20	NM-102B20
Protocol and Standards:	IEEE802.3, IEEE802.3u	
Maximum Speed:	Full Duplex: 200Mbps for 100Base-Tx/Fx Half Duplex: 100Mbps for 100Base-Tx/Fx	
Cabling:	Ethernet: 1000Base-Tx 2 pair Cate.5 UTP Cable Fiber: Single Mode 8.3/125, 8.7/125, 9/125 μ m	
Modes:	Full or half-duplex mode, Auto-Negotiation	
Packet Forwarding Rate (64Bytes):	14880pps@10Mbps / 148800pps@100Mbps	
Connector:	Copper: RJ-45 Fiber: Single SC-type connector	
TX Optical Frequency:	1550nm(1480~1580nm)	1310nm(1260~1360nm)
RX Optical Frequency:	1310nm(1260~1360nm)	1550nm(1480~1580nm)
Max. / Min. Optical Launch Power:	- 8dBm / -14dBm	
Optical Receive Sensitivity:	- 31dBm	

Specification for Optic Fiber

Single-Mode Fiber:	Diameter: 10/25 μ m wavelength 1300 (1270~1355) nm
Multi-Mode Fiber:	Diameter: 62.5/125 μ m wavelength 850 (1270~1355) nm Diameter: 62.5/125 μ m wavelength 1300 (1270~1355) nm

General Specification

Operating Temperature:	0°C~ 50°C (32°F ~ 122°F)
Storage Temperature:	-20 °C~ 65°C (-4°F ~ 149°F)
Humidity:	Up to 90% (non-condensing)
Dimensions:	70mm x 94mm x 26mm(W x L x H)

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