

# NM-102KIT

## MEDIA CONVERTER SERIES

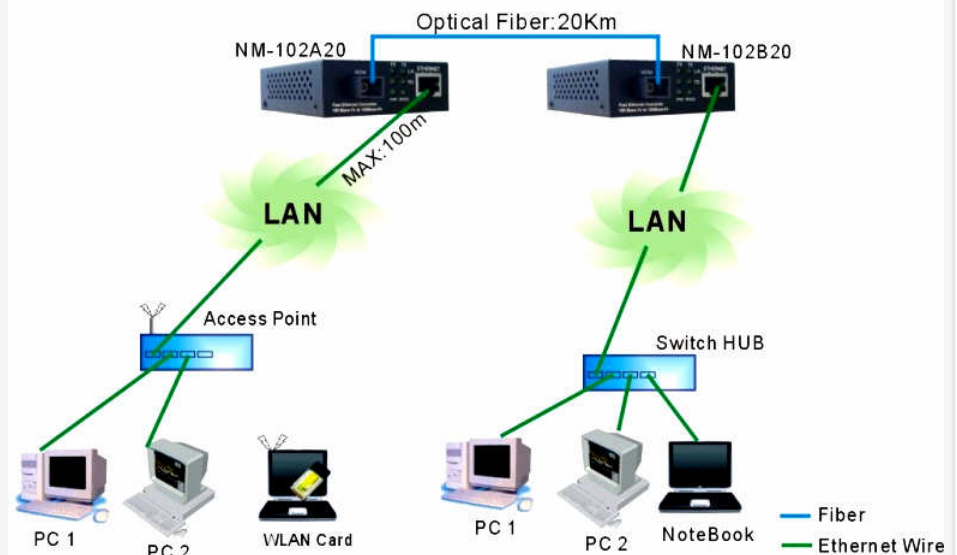


### General Description

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

#### Media Converter Application



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**Order Information:** NM-102 KIT (NM-102 A20 and NM-102 B20 Media Converter)



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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, 9/125µm 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

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

### Specification for Optic Fiber

Type	Specification
<b>Single-Mode Fiber</b>	Diameter: 10/25µm wavelength 1300 (1270~1355) nm
<b>Multi-Mode Fiber</b>	Diameter: 62.5/125µm wavelength 850 (1270~1355) nm Diameter: 62.5/125µm wavelength 1300 (1270~1355) nm

### General Specification

<b>Operating Temperature:</b>	0°C ~ 60°C (32°F ~ 140°F)
<b>Storage Temperature:</b>	-20°C ~ 70°C (-4°F ~ 158°F)
<b>Humidity:</b>	Up to 90% (non-condensing)
<b>Dimension:</b>	70(W) x 94(L) x 26(H) mm

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