NM-1000E

Giga Media Converter
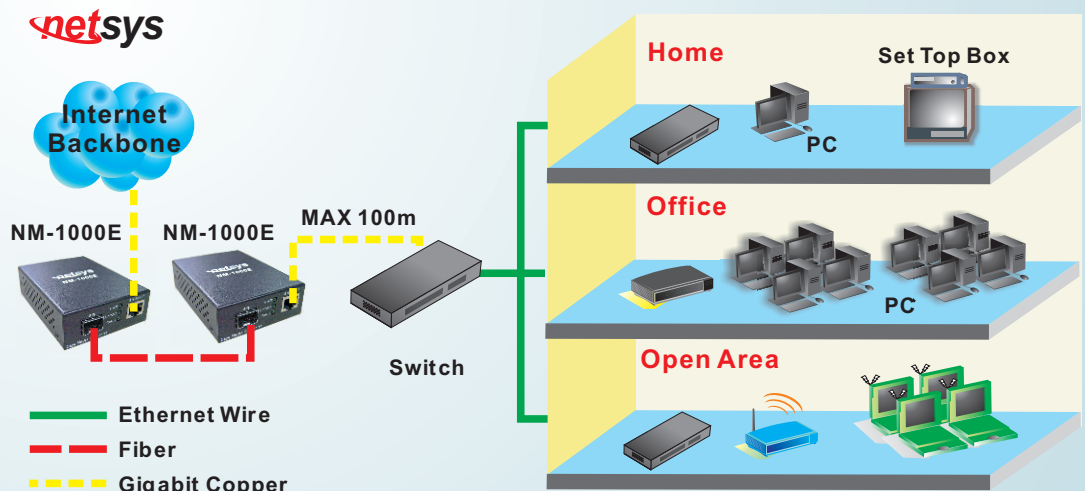
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General Description

The Netsys NM-1000E is a converter that translates transmission signals from a twisted-pair 1000BASE-TX cable (UTP) to 1000BASE-FX fiber optic cable. 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 2000Mbps 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 1000 Mbps bandwidth.

NM-1000E supports conversion between 1000Base-T and 1000Base-LX / SX network, which are SC / SFP / WDM connectors with single-mode or multi-mode media as required. NM-1000E also supports jumbo frames pass through which is perfect for video streaming applications. With high performance of data transmission and easy installation, the NM-1000E can build the ISP network solution of FTTH (Fiber to the Home) or FTTC (Fiber to the Curb) for ISPs and FTTB (Fiber to the Building), also for small office network environment of enterprises.
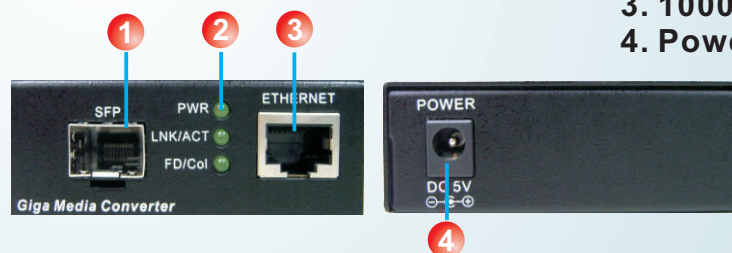
Application Diagram

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Internet Backbone

NM-1000E   NM-1000E   MAX 100m

Switch

Home   Set Top Box   PC
Office   PC
Open Area

— Ethernet Wire
--- Fiber
--- Gigabit Copper

Jumbo Frame pass through

Easy installation

Fiber optic: SFP type

Detailed View

1. SFP optic
2. LED Indicators
3. 1000Mbps ETHERNET Port
4. Power Jack(DC 5V In)

① ② ③

SFP   PWR   ETHERNET
LNK/ACT
FD/Col
Giga Media Converter

POWER
DC 5V

④

Order information: NM-1000E(**Giga media converter)**

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

NM-1000E
Giga Media Converter

Key Features & Benefits

- Supports auto-MDIX and 1000Base T for RJ-45 port
- Complies with IEEE802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX / LX
- Supports all of standard SFP Transceiver Connecting as Multi Mode/ Single Mode/ WDM
- Supports Jumbo frames pass through
- Supports Link Fault Pass Through(LFP)
- Ethernet enable up to 150meters
- Data Transfer Rate: 1000Mbps
- Duplex mode support: Full or half-duplex mode by Auto-Negotiation.
- Compact in size, easy installation
- EMI certified by CE, FCC
- RoHS compliant

Product Specification

Protocol and Standards:	IEEE802.3ab,IEEE802.3z
Maximum Speed:	Full Duplex: 2000Mbps for 1000Base-Tx/Fx Half Duplex: 1000Mbps for 1000Base-Tx/Fx
Cabling:	Ethernet: 1000Base-Tx 2 pair Cate.5 UTP Cable Fiber Optic: Flexible (Depending on Fiber Transceiver)
Modes:	Full or Half-duplex mode
Packet Forwarding Rate (64Bytes):	1488000pps@1000Mbps
Connector:	Copper: RJ-45(Auto-MDI / MDI-X) Fiber Optic: SFP Type
TX/RX Optical Frequency:	Flexible (Depending on Fiber Transceiver)
LED Indication:	PWR LINK/ACT FD/COL
External Power Adapter:	Input: AC 100-240 volts/ 50-60Hz Output: DC 5V/1A
Power Consumption:	1.85W
Operating Temperature:	0°C~ 50°C (32°F ~ 122°F)
Storage Temperature:	-20 °C~ 70°C (-4°F ~ 158°F)
Humidity:	10 to 90% (non-condensing)
Dimensions:	70mm x 94mm x 26mm

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