

Product Introduction & Benefits

The NXF-742 Media Converter is a cost-effective, feature-packed solution for expanding or extending an existing Ethernet/ Fast Ethernet network. The converter boasts enhanced with such features as remote and local loop back testing, auto-negotiation, and link fault signaling for total reliability, It also features seven DIP switches for manual activation of the enhanced features. This gives the NXF-742 the ability to be quickly integrated into a network configuration.

The NXF-742 can support a variety of fiber optic cables and connectors that can extend distances (up to 100km) as well as offering flexibility in the migration to 100Base-FX networks!



Main Features

- ◆ Device DIP switches allow multiple configuration options
- ◆ Automatic MDI/MDI-X selection on RJ-45 port
- ◆ Auto-negotiation, NWay support on RJ-45
- ◆ Link Fault Signaling (LFS)
- ◆ Remote and local loop back test
- ◆ LEDs for at-a-glance device status
- ◆ Extends distances ranging from 2km (multi-mode fiber) to 120km (single mode fiber)
- ◆ Store-and-forward at full wire speed
- ◆ Internal and external power supply options
- ◆ FCC Class A & CE approved.



Specification

Standard: IEEE 802.3 (10BASE-T Ethernet);
IEEE 802.3u (100BASE-TX/FX Fast Ethernet)

Ports: 1 x copper; 1 x fiber optic

Interfaces: UTP 100/120ohm; RJ-45 type
Fiber optic connector: SC, or ST types (only SC type for single mode)

Max. Distance: UTP: 100 meters (Category 3/4/5 or better)
Fiber: 2,000 meters
(62.5/125 or 50/125 micron fiber cabling)
20,000~120,000 meters
(9/125 micron fiber cabling)

Unit LED: 100: Green, illuminated when data packets are being transmitted at 100Mbps

LFS: Red, illuminated when a break or disruption exists in copper or fiber links

LNK: Green, illuminated indicates receiving link pulses from compliant device

ACT: Green, flashing to indicate data packets being sent / received

FDX: Amber, flashing to indicate unit is in full-duplex mode

COL: Amber, flashing to indicate collision

PWR: Green, illuminated to indicate unit is operating under normal power

Power: AC power adapter; 12V DC @ 0.5A

Environment:

Operating Temperature: 0°C to 50°C

Relative Humidity: 10% to 80%, Non-condensing

Non-Operating/Storage:

Temperature: -25°C to 70°C

Relative Humidity: 5% to 90%,

Non-condensing

Emissions: FCC Part 15 of Class A & CE approved

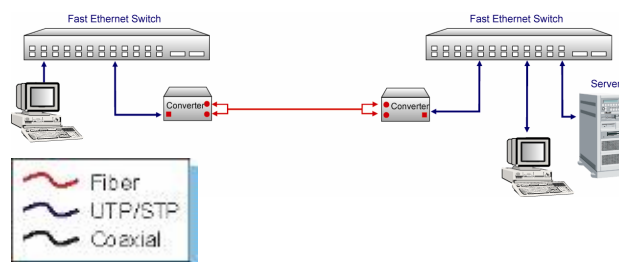
Dimensions: 86 x 133.5 x 29mm (W x D x H)

Weight: 158g

- Switches:**
- DIP 1 - Enables / disables auto-negotiation
 - DIP 2 - Copper port (RJ45) duplex mode; full-duplex or half-duplex
 - DIP 3 - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
 - DIP 4 - Fiber port duplex mode; full-duplex or half-duplex
 - DIP 5 - Enables / disables link fault signaling (LFS)
 - DIP 6 - Enables / disables local loop back (LLBK)
 - DIP 7 - Enables / disables remote loop back (RLBK)

Applications

The following illustrates typical applications for the NXF-742 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.



Ordering Information

NXF-742MT:

Enhanced 10/100Base-TX to 100Base-FX Multi-mode Media Converter (ST Connector)

NXF-742MC:

Enhanced 10/100Base-TX to 100Base-FX Multi-mode Media Converter (SC Connector)

NXF-742SC-30/60/100 (km):

Enhanced 10/100Base-TX to 100Base-FX Single Mode Media Converter (SC Connector)

NXF-742TS-20/40 (km):

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, Transmitter (WDM TX1310nm/ RX1550nm)

NXF-742RS-20/40 (km):

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, Receiver (WDM TX1550nm/ RX1310nm)

NOTE: Above models available with internal AC/DC power supply options (used with the NXF-711 Mini Converter Chassis)

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Specifications subject to change without prior notice.