

# NXF-742

## Enhanced 10/100Base-TX to 100Base-FX Media Converter

### Overview

The NXF-742 Media Converter is a cost-effective, feature-packed solution for expanding or extending an existing Ethernet or Fast Ethernet network. The converter is enhanced with such features as remote and local loopback detection, auto-negotiation, and link fault signaling for high 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 which can extend transmission distances up to 100km as well as offering flexibility in the migration to 100Base-FX networks. Several converters can be simultaneously installed by using the NXF-719 12-slot 19" rack-mountable chassis, or the NXF-717 4-slot rack-mountable chassis.

### Features

Automatic MDI/MDI-X  
Auto-negotiation, NWay support on RJ-45  
Link Fault Signaling

Device DIP switches allow multiple configuration options  
Remote and local loopback testing  
LEDs for at-a-glance device status

#### Switches

- DIP 1 Enables/disables auto-negotiation
- DIP 2 RJ-45 port duplex mode; full-duplex or half-duplex
- DIP 3 RJ-45 port data bit rate; 10Mbps or 100Mbps
- DIP 4 Fiber port duplex mode; full-duplex or half-duplex
- DIP 5 Enables/disables Link Fault Signaling
- DIP 6 Enables/disables local loopback
- DIP 7 Enables/disables remote loopback

#### LEDs

- PWR lit for normal power
- FDX lit in full duplex mode
- LNK lit when receiving link packets from a compliant device
- LFS lit when a break or disruption occurs in either the copper or fiber link
- COL flashes to indicate packet collisions
- 100 lit when data packets are being transmitted at 100Mbps

### Specifications

#### Standards

- IEEE 802.3 10Base-T
- IEEE 802.3u 100Base-TX/FX

#### Ports

- 1 x 100Base-FX (SC/ST)
- 1x 10/100Base-T (RJ-45)

#### Maximum Distances

- Fiber Optic Up to 110km
- RJ-45 100m

#### Mechanical & Environmental

- Power input 12V DC
- Frequency 47 to 63Hz
- Power consumption 2.8W
- Current 0.23A@12V
- Operating temperature 0°C to 50°C
- Storage temperature -25°C to 70°C
- Operating humidity 10% to 80% RH
- Storage humidity 5% to 90% RH

#### Safety & Emissions

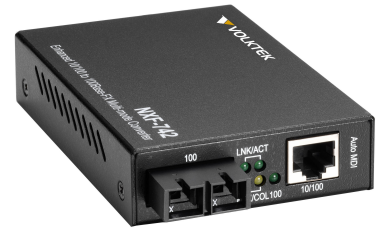
FCC Part 15 of Class A & CE Approved

#### Dimensions & Weight

109.2 x 23.4 x 73.8 mm (W x H x D)  
Weight: 160g

#### Warranty

5 years



### Ordering information

#### NXF-742MT

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

#### NXF-742MC

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

#### NXF-742SC-20

Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 20km Media Converter

#### NXF-742SC-30

Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 30km Media Converter

#### NXF-742SC-60

Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 60km Media Converter

#### NXF-742SC-100

Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 100km Media Converter

#### NXF-742TS-20

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, 20km WDM TX 1310nm/RX 1550nm Transmitter

#### NXF-742TS-40

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, 40km WDM TX 1310nm/RX 1550nm Transmitter

#### NXF-742RS-20

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, 20km WDM TX 1550nm/RX 1310nm Receiver

#### NXF-742RS-40

Enhanced 10/100Base-TX to 100Base-FX Single Fiber Media Converter, 40km WDM TX 1550nm/RX 1310nm Receiver