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NXF-742
10/100 RJ45 to 100FX Converter, Slim Aluminum Case

Description

The NXF-742 Fast Ethernet Media Converter is specifically designed for medium and large workgroups which demand extended reach, and engineered to offer a solution for networks that are ready to expand or migrate from copper-based to Fiber-based networks. Along with the capability of converting media transmissions, the NXF-742 features enhanced functions like local and remote Loopback, Auto MDI/MDIX, LFS (Link Fault Signalling), LEDs, DIP switches etc to provide high reliability, easy plug-and-play, continuous monitoring and thereby minimize downtime for mission-critical networks.

Featuring an RJ45 port and a fiber port, the NXF-742 converts 10/100Base-TX network to 100Base-FX fiber network or vice versa by easily integrating copper with fiber and allowing them to operate smoothly. This gives the utmost flexibility in installing various connections over fiber and extend the reach of Fast Ethernet connectivity over single-mode or multi-mode fiber. The NXF-742 offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 100km and provide a gradual migration path from existing copper-based network to Fiber-based network.

RoHS
CE FC
0°C 50°C
Auto Negotiation
Auto mdi/mdix
Plug & Play

Features Highlight

Versatile and Reliable Technology

Network administrators can now flexibly monitor and diagnose issues associated with device or network functionality and link activity using the NXF-742 enhanced features. With Loopback function, the converter allows administrators to perform network diagnostics from local or remote location and quickly pinpoints problem areas of links by testing a particular segment. LFS (Link Fault Signalling) feature on the device provides critical information about link status and enables you to easily detect optical signal strengths and faulty links on copper and fiber ports, and significantly minimizes outage.
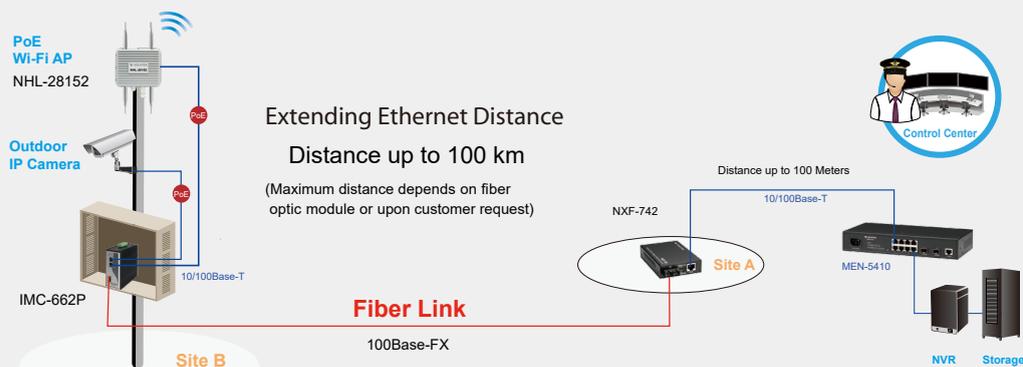
Economic and Space-saving Design

Responding to the issues of design in mission-critical environments, the NXF-742 is designed in a space-saving, compact and slim housing. This standalone low-cost media converter provides transparent conversion at 100Mbps without data stream interference and inexpensively connects both 10/100Mbps copper port and 100Mbps Fiber port in a small enclosure. Compact in size, the media converter easily fits in smaller infrastructures that have little space available. The NXF-742 is extremely simple to install and operate, and thus saves your valuable time and money.

Easy Plug-and-play Operation

Being a compact, lightweight media converter, the NXF-742 is an easy-to-setup and ready-to-use solution for dispersed or emerging networks. Featuring Auto-MDI/MDIX and Auto-negotiation, the media converter automatically detects and configures the best mode of operation over a link. This eliminates the need of user setup or configuration procedure and simplifies installation. And once installed the media converter operates automatically. In addition, the DIP switches on the NXF-742 provides a simplest and quickest way to enable or disable various functions on the device.

Applications

Fiber-Optic Link Capability Enables Extension of Network Deployment

PoE Wi-Fi AP
NHL-28152

Outdoor IP Camera

IMC-662P

Site B

Extending Ethernet Distance

Distance up to 100 km

(Maximum distance depends on fiber optic module or upon customer request)

10/100Base-T

Fiber Link

100Base-FX

NXF-742

Site A

Control Center

Distance up to 100 Meters

10/100Base-T

MEN-5410

NVR   Storage

* The diagram illustrates a typical application for the NXF-742 media converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

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Specifications

Features

- Auto MDI/MDI-X
- Auto-negotiation,NWay support on RJ45
- Link Fault Signaling
- Device DIP switches allow multiple configuration options
- Remote and local loopback testing
- LEDs for at-a-glance device status

Standards

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

Fiber Optics

Model Name	NXF-742MT	NXF-742MC	NXF-742SC	NXF-742TS	NXF-742RS
Connector Type	ST	SC	SC	TX	RX
Interface Type	100Base-FX	100Base-FX	100Base-FX	100Base-FX	100Base-FX
Fiber Mode	Multi-Mode	Multi-Mode	Single-Mode	Single-Mode	Single-Mode
Distance	Up to 2km	Up to 2km	Up to 100km	Up to 40km	Up to 40km

(Upon customer request)

LAN (RJ45)

Speed	10/100M
Max. Distance	100m

Power

Power Input	12V DC, via external power adapter
Power Consumption	1.92W

Mechanical and Environment

Dimensions (W x H x D)	73.8 x 23.4 x 109.2mm
Weight	150g
Mounting	Wall-Mount, DIN-Rail (Optional), Chassis Compatible
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~85°C
Operating Humidity	10 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)

Specifications subject to change without notice.

Standards and Certifications

EMI	FCC Part 15 of Class A & CE Approved EN 55022 Class A EN 61000-3-2 EN 61000-3-3
EMS	EN 55024 IEC/EN 61000-4-2 (ESD) Level 4 IEC/EN 61000-4-3 (RS) Level 2 IEC/EN 61000-4-4 (EFT) Level 2 IEC/EN 61000-4-5 (Surge) Level 3 IEC/EN 61000-4-6 (CS) Level 2 IEC/EN 61000-4-8 (PFMF) Level 2 IEC/EN 61000-4-11

Ordering Information

NXF-742MT	Enhanced 10/100Base-TX to 100Base-FX (ST) Multi-mode 2km Media Converter
NXF-742MC	Enhanced 10/100Base-TX to 100Base-FX (SC) Multi-mode 2km Media Converter
NXF-742SC	Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 30km Media Converter
NXF-742SC-40	Enhanced 10/100Base-TX to 100Base-FX (SC) Single mode 40km 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 FiberMedia 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

Dimension