VOLKTEK

NGF-762

10/100/1000 RJ45 to 1000SX/LX Converter, Slim Aluminum Case

Description

The NGF-762 Gigabit Media Converter is specifically designed for large workgroups such as enterprise or campus environments which demand maximum bandwidths, and engineered to offer a solution for networks that are ready to expand or migrate from copper-based Gigabit triple speed to Fiber-based Gigabit network. Along with the capability of converting media transmissions, the NGF-762 features intelligent functions like Auto MDI/MDIX, LFS (Link Fault Signalling), LEDs, DIP switches etc to provide easy plug-and-play, continuous monitoring and thereby minimize downtime for mission-critical networks.

Featuring an RJ45 port and an SFP slot, the NGF-762 converts 10/100/1000Base-T network to 1000Base-SX/LX 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 Gigabit Ethernet connectivity over single-mode or multi-mode fiber or SFP module. The NGF-762 offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 80km and provide a gradual migration path from existing Fast Ethernet network to Gigabit network

Features Highlight

Economic and Space-saving Design

Responding to the issues of design in mission-critical environments, the NGF-762 is designed in a space-saving, compact and slim housing. This standalone low-cost media converter provides transparent conversion at 1000Mbps without data stream interference and inexpensively connects both 10/100/1000Mbps copper port and Gigabit SFP in a small enclosure. Compact in size, the media converter easily fits in smaller infrastructures that have little space available. The NGF-762 is extremely simple to install and operate, and thus saves your valuable time and money.
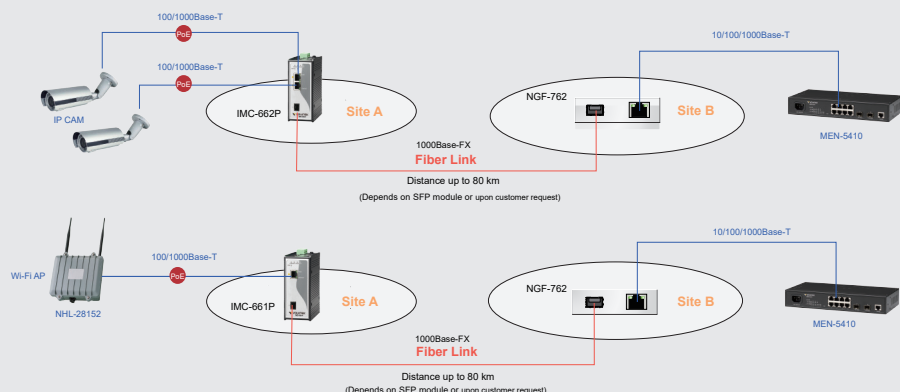
Fault-tolerant and User-friendly Monitoring

Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the NGF-762 advanced features. 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 both copper and fiber ports, and significantly minimizes outage. And the LEDs on the NGF-762 convey essential diagnostic and status information of device power, link activity on ports etc. and allow you to easily monitor without having to get into tight spaces.

Easy Plug-and-play Operation

Being a compact, lightweight media converter, the NGF-762 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 Link Fault Pass-through DIP switch on the NGF-762 provides a simplest and quickest way to enable or disable LFS (Link Fault Signalling) function on the device.

Applications

* The diagram illustrates a typical application for the NGF-762 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
- Fiber link failure alarm
- Link Fault Signaling if the copper link or Fiber link fails
- LEDs for at-a-glance device status
- Fiber Auto Mode

Standards

IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX

Fiber Optics

Model Name	NGF-762	NGF-762MC	NGF-762SC
Connector Type	SFP	SC	SC
Interface Type	1000Base-SX/LX	1000Base-SX	1000Base-LX
Fiber Mode	(Depends on SFP module)	Multi-Mode	Single-Mode
Distance	Up to 80km (Depends on SFP module)	Up to 500m (Upon customer request)	Up to 80km (Upon customer request)

LAN (RJ45)

Speed	10/100/1000M	10/100/1000M	10/100/1000M
Max. Distance	100m	100m	100m

Power

Power Input	12V DC/1.5A, via external power adapter
Power Consumption	5.3W

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)

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

NGF-762		10/100/1000Base-T to SFP (SX/LX) Gigabit Converter
SFP Module	GBM-104	1000Base-SX 1.25G, Multi-Mode SFP, 500m
	GBM-104-2	1000Base-SX 1.25G, Multi-Mode, 3.3V, 1310nm, 2Km
	GBM-104-10	1000Base-LX 1.25G, Single-Mode SFP, 10Km
	GBM-123TS	1000Base-LX, Bi-Di SFP TX:1310/RX:1550 Single-Mode,10km
	GBM-123RS	1000Base-LX, Bi-Di SFP TX:1550/RX:1310 Single-Mode , 10km
NGF-762MC		10/100/1000Base-T to Multi-Mode 1000Base-FX Converter, SC connector,500m
NGF-762SC		10/100/1000Base-T to single mode 1000Base-FX Converter, SC connector, 10km
NGF-762SC-40		10/100/1000Base-T to single mode 1000Base-FX Converter, SC connector, 40km
NGF-762SC-50		10/100/1000Base-T to single mode 1000Base-FX Converter, SC connector, 50km
NGF-762SC-70		10/100/1000Base-T to single mode 1000Base-FX Converter, SC connector, 70km

Specifications subject to change without notice.

Dimension

11.95

109.2

23.4

73.8