VOLKTEK

NGF-762E

10/100/1000 RJ45 to 100FX/1000Base-X Converter

Description

The NGF-762E Gigabit Media Converters Series is specifically designed for large work-groups 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-762E Series features intelligent functions like Auto MDI/MDIX, LFS (Link Fault Signaling), 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-762E converts series 10/100/1000Base-T network to 100FX/1000Base-X 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-762E series offers you the most economic and cost-effective solution to meet your need for long distance transmissions up to 120km (based on the SFP) and provide a gradual migration path from existing Fast Ethernet network to Gigabit network.

RoHS CE FC -10°C 60°C Auto mdi/mdix Plug & Play Auto Negotiation IP Code 30 Wall Mount DIN Rail

Features Highlight

Economic and Space-saving Design

Responding to the issues of design in mission-critical environments, the NGF-762E 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 Fast/Gigabit Ethernet SFP in a small enclosure. The compact size allows the converters to be wall-mounted to save space. The converters can be simultaneously installed by using the RM-1901 open frame rack or NXF-719 12-slot, 19" rack-mountable chassis. The NGF-762E is extremely simple to install and operate, and thus saves your valuable time and money.

Fault-tolerant and User-friendly Monitoring

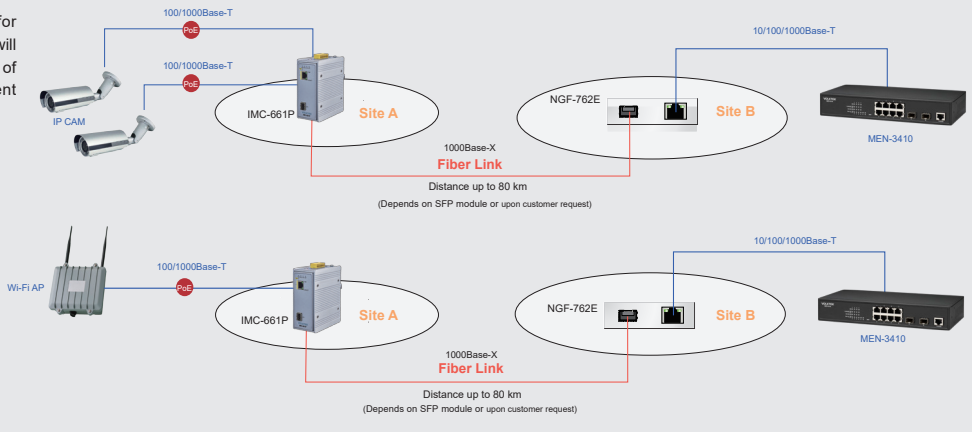
Network administrators can now easily monitor and troubleshoot issues associated with device functionality and link activity using the NGF-762E advanced features. LFS (Link Fault Signalling) feature on the device provides critical information about link status and enables you to easily detect optical signal strengths and faulty links on both copper and fiber ports, and significantly minimizes outage. And the LEDs on the NGF-762E 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-762E 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 Signaling DIP switch on the NGF-762E provides a simplest and quickest way to enable or disable LFS (Link Fault Signaling) function on the device.

Applications

* The diagram illustrates a typical application for the NGF-762E converter. The actual distances will epend on several factors, including the quality of cables used and the terminal equipment employed.



VOLKTEK

Specifications

Standards	
IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX/FX
IEEE 802.3ab	1000BASE-T
IEEE 802.3z	1000BASE-SX/LX

Interface	
Ports	1 x 10/100/1000BASE-T (RJ45) 1 x 100FX/1000BASE-X
LED Panel	PWR, ALM, Fiber (1000, LNK/ACT), RJ45 (1000, LNK/ACT)
DIP Functions	LFS (Link Fault Signal) LLB (Local Loopback) RLB (Remote Loopback) SFP Speed

Fiber Optics			
Model Name	NGF-762E	NGF-762E-MC	NGF-762E-SC
Connector Type			
	SFP	SC	SC
Interface Type	100FX/1000Base-X	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)

Features	
Performance	Mode: Store & Forward (unequal link speed) Cut-through (equal link speed)
	Packet buffer size: 512 Kbits
	Jumbo Frame size: 16 KBytes

Power	
Power Input	12V DC/1A, via external power adapter
Power Consumption	1.8W

Mechanical and Environment	
Housing	Aluminum (IP30 Protection)
Mounting	Wall-Mount, DIN-Rail (Optional)
Operating Temperature	0°C~50°C (32°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)
Operating Humidity	5 to 95 % RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Weight	131 g (0.29 lb)
Dimension (WxHxD)	73.8 x 23.4 x 109.2 mm (2.9 x 0.92 x 4.3 in)

Standards and Certifications	
EMI	FCC Part 15 of Class A & CE Approved EN55032 Class A EN 61000-3-2 EN 61000-3-3
EMS	EN 55024 IEC/EN 61000-4-2 (ESD) IEC/EN 61000-4-3 (RS) IEC/EN 61000-4-4 (EFT) IEC/EN 61000-4-5 (Surge) IEC/EN 61000-4-6 (CS) IEC/EN 61000-4-8 (PFMF) IEC/EN 61000-4-11

Ordering Information		
NGF-762E		10/100/1000Base-T to SFP Gigabit Converter
SFP Module	GBM-104	1000Base-SX 1.25G, Multi-mode SFP, 500m
	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-762E-MC		10/100/1000Base-T to Multi-mode 1000Base-FX Converter, SC connector, 500m
NGF-762E-SC		10/100/1000Base-T to Single Mode 1000Base-FX Converter, SC connector, 10km
NGF-762E-SC40		10/100/1000Base-T to Single Mode 1000Base-FX Converter, SC connector, 40km
NGF-762E-SC50		10/100/1000Base-T to Single Mode 1000Base-FX Converter, SC connector, 50km
NGF-762E-SC70		10/100/1000Base-T to Single Mode 1000Base-FX Converter, SC connector, 70km

**Specifications subject to change without notice.*

Dimension