

# NGF-760

## 10/100/1000 to 2-slot 1000SX/LX (SFP) Converter

The NGF-760 media converter is specifically designed to offer high-speed recovery (<10ms) and fiber advantages for mission-critical networks like Telco/ISP backbones, cable operators, banking and enterprise networks. The NGF-760 can minimize network downtime and increase Quality of Service levels. The converters are completely transparent when installed, so the network performs exactly the way it would do normally – only now, it can incorporate both copper and fiber mediums.



This flexibility in cabling allows network managers to put fiber cables anywhere within a network without changing the arrangement of the copper-based Gigabit segments. Their compact size allows the converters to be wall-mounted to save space. Several converters can be simultaneously installed by using the NXF-717 4-slot or NXF-719 12-slot, 19" rack-mountable chasses.

The NGF-760 takes advantage of intelligent connection technology to support Auto-negotiation, thereby eliminating the hassle of manually configuring or monitoring settings. This ensures plug-n-play operability.

### Main Features:

#### Standards:

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

#### Interface:

- 1 x 10/100Base-TX RJ-45 port
- 1 x 1000Base-FX Fiber port

#### Reliance and availability:

- Auto MDI/MDI-X
- Auto-negotiation, NWay support on RJ-45
- Fail-over on dual fiber links
- Issuing an alarm if a fiber link fails
- Link Fault Signaling (LFS) occurs when copper link or BOTH fiber links fail
- Automatically switches back to the primary fiber link if it recovers after a failure and fail-over to the other link

#### Management:

- Alarm LED illuminates to indicate link failure
- Status LEDs for easy monitoring of device's status

#### Mechanical & Environmental:

- External power supply
- Chassis-compliant (internal power supply)
- FCC Class A & CE approved

## Specifications

### Standards:

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

### Connector:

- 1 x RJ-45
- 2 x SFP

### Max. Distance:

- UTP: 100 meters (Cat.3/4/5/6)
- Fiber: 2km (MM, 62.5/125 or 50/125 micron)  
120km (SM)  
60km (SM/SF)

### Unit LED:

- PWR: Illuminates for normal operation
- ALM: Illuminated when failure occurs on any fiber link or on LFS
- PRI: Primary link – Illuminated when receiving link pulses from compliant devices–Flashing when data packets are being transmitted / received
- RDT: Redundant link – Illuminated when receiving link pulses from compliant devices–Flashing when data packets are being transmitted / received

### MDI/MDI-X

- Auto Selection

### Power:

- Power Input: 12V DC, external power supply adapter
- Frequency: 47Hz to 63Hz
- Power Consumption: 5.3W
- Current: 0.412A@ 12.8V

### Temperature:

- Operating: 0°C to 50°C
- Storage: -20°C to 70°C

### Humidity:

- Operating: 10% to 80% RH
- Storage: 5% to 90% RH

### Emissions:

- FCC Part 15 of Class A & CE Approved

### Dimensions:

- 109.2 x 73.8 x 23.4mm (D x W x H)

### Weight:

- 160g

### DIP Switches:

- DIP 1 LFS: Enable/disable Link-Fault Signaling (LFS)

## Ordering Information:

### NGF-760:

- Gigabit Triple-Speed to 2-Slot 1000SX/LX (SFP) Converter

### GBM-104:

- Mini GBIC, 1.25G SFP-type Multi-mode, 3.3V – 500m

### GBM-104-10/30/50/70/110:

- Mini GBIC, 1.25G SFP-type Single-mode, 3.3V – 10 / 30 / 50 / 70 / 110km

### GBM-123TS:

- Mini GBIC, 1.25G SFP-type Single-mode, WDM, TX1310/RX1550nm, 3.3V - 10km

### GBM-123RS:

- Mini GBIC, 1.25G SFP-type Single-mode, WDM, TX1550/RX1310nm, 3.3V - 10km

\* WDM Single Fiber Converters must be installed with Transmitter and Receiver in pairs.