NGF-741

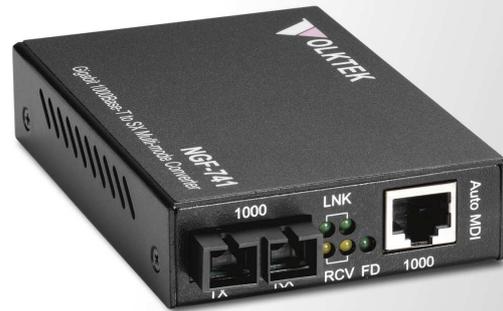## *Gigabit 1000Base-T to SX/LX Converter*

The NGF-741 media converters were specifically designed to offer network designers the tools for migration from copper based Gigabit to fiber based Gigabit Ethernet. Now, migration or expansion of existing networks can be achieved with minimum cost and complexity. The converters are completely transparent when installed so the network performs exactly the way it would do normally-only now, it can migrate both copper and fiber mediums.

This flexibility in cabling allows network managers to put fiber cables anywhere with in a network without changing the arrangement of copper based Gigabit segments. Their compact size allows the converter to be easily deployed in any narrow desktop location or used in wall-mount installation to save space. Several converters can be simultaneously installed by using the NXF-719 12-slot 19" rack-mount chassis, or NXF-717 4-slot rack-mount converter chassis.

The NGF-741 takes advantage of Gigabit Ethernet technology, suitable for transmission applications of larger bandwidth like Video, Image, and Voice over IP.

Main Features:

Standards:
- IEEE 802.3ab 1000Base-T, 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
- Local and Remote loopback test for first time installation and troubleshooting
- Status LEDs for easy monitoring of device status

Mechanical & Environmental:
- Low power consumption
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved

Specifications

Standards:
- IEEE 802.3ab   1000Base-T
- IEEE 802.3z   1000Base-SX/LX

Connector:
- 1 x RJ-45
- 1 x Fiber (SC)

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: Illuminated for normal operation
- FD: Illuminated when working in full duplex mode
- LNK: Illuminated when receiving link pulses from compliant devices
- RCV: Illuminated or 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: 3.4W
- Current: 0.28A@ 12V

Temperature:
- Operating: 0ºC to 50ºC
- Storage: -20ºC to 70ºC

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 – LLBK: Copper port local loop back Enable or Disable (On: Enable Off: Disable)
- DIP 2 –RLBK: Fiber port remote loop back Enable or Disable (On: Enable Off: Disable)

Ordering Information:

NGF-741MC:
- Gigabit 1000Base-T to SX Multi-mode Converter (SC Connector)

NGF-741SC-10/40/80 (km):
- Gigabit 1000Base-T to LX Single Mode Converter (SC Connector)

NGF-741TS-20/40/60 (km):
- Gigabit 1000Base-T to LX Single Fiber Converter, Transmitter (TX1310nm/RX1550nm, SC Connector)

NGF-741RS-20/40/60 (km):
- Gigabit 1000Base-T to LX Single Fiber Converter, Receiver (TX1550nm/RX1310nm, SC Connector)

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