

# NXF-705

## 100Base-TX to 100Base-FX Converter

The NXF-705 series is among VOLKTEK's answers to expanding existing Fast Ethernet networks. The easy implementation and expansion of 100Base-TX/FX networks can be further assured with this converter.

The converter is completely transparent when connected so the network performs exactly the way it did before - only now, it allows the co-existence of both copper and fiber mediums. Added flexibility is available with ST, SC, and WDM Simplex SC connectors. Extra distances are possible with the single mode version delivering up to 80km connectivity per transmitted segment.

The NXF-705 allows the installation of fiber cabling anywhere within a Fast Ethernet network topology by directly connecting to existing devices. Its compact modular design facilitates deployment in a narrow desktop location to save space. Several converters can be simultaneously installed by using the NXF-719 12-slot 19" rack-mount chassis, NXF-717 4-slot rack-mount converter chassis.



### Main Features:

#### Standards:

- IEEE802.3u (100BASE-TX/FX)

#### Interface:

- 1 x 100Base-TX RJ-45 port
- 1 x 100Base-FX Fiber port

#### Reliance and availability:

- Auto MDI/MDI-X
- Status LED's for Full Duplex (FD), Receive (RCV) & LINK (LNK), to easily monitor network status

#### Mechanical & Environmental:

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

## Specifications

### Standards:

- IEEE 802.3u (100BASE-TX/FX)

### Connector:

- 1 x RJ-45
- 1 x Fiber (ST/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: Green Illuminated for normal operation
- FD: Green Illuminated when in full duplex mode
- LNK: Green Illuminated when receiving link pulses from compliant devices
- RCV: yellow Illuminated or flashing when data packets are being transmitted / received

### MDI/MDI-X:

- Push button selection

### Power:

- Power Input: 12V DC, external power supply adapter
- Frequency: 47Hz to 63Hz
- Power Consumption: 2.8W
- Current: 0.23A@ 12V

### Temperature:

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

### Humidity:

- Operating: 10% to 90% 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:

- Push button for MDI/MDI-X operation on RJ-45
- Slide switch for NWay auto-negotiation on RJ-45

## Ordering Information:

### NXF-705MT:

- 100Base-TX to 100Base-FX Multi-mode Converter (ST Connector)

### NXF-705MC

- 100Base-TX to 100Base-FX Multi-mode Converter (SC Connector)

### NXF-705SC -20/40/60/80 (km):

- 100Base-TX to 100Base-FX Single Mode Converter (SC Connector)

### NXF-705TS -20/40/60 (km):

- 100Base-TX to 100Base-FX (TX1310nm/RX1550nm) Single Fiber

### NXF-705RS -20/40/60 (km):

- 100Base-TX to 100Base-FX (TX1550nm/RX1310nm) Single Fiber

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