

Gigabit Ethernet Fiber Optic Mode Converter/Repeater

Model TC3006

- Converts/Repeats Multimode to Single Mode (and vice versa)
- 1000Mbps Continuous Data Rate
- One Fiber Bi-Directional Communication (optional, single mode only)
- Distances up to 100km
- Local Dry Contact Alarm Relay
- 8 Diagnostic LED Indicators
- Built-In Power Redundancy
- Rackmount or Standalone



TC3006S Standalone/Wallmount Unit



TC3006R (Housed in TCRM195 19" Rackmount Card Cage)

The TC3006 "MAXI" Gigabit Ethernet Multimode-to-Single Mode Fiber Optic Converter converts multimode formats to single mode formats, or vice versa, for Gigabit data transmission. It also repeats the multimode & single mode fiber signals. Transmission distances to more than 100km are possible with the laser 1550nm singlemode option and 2km with the 1300nm multi mode option.

The MAXI will convert or repeat all popular wavelengths 850/1300nm Multimode or 1300/1550nm Single Mode. It is compatible with Gigabit Ethernet standards 1000Base-SX and 1000Base-LX.

The MAXI provides users with several key features including Local & Remote Loopback, Dry Contact Relay Alarm, Audible Alarm Buzzer, Power Redundancy, and standalone or rackmount modularity.

The Dry Contact Alarm is particularly beneficial. Along with an audible alarm buzzer, it identifies Optical Signal Loss on either the multimode or single mode ends.

Power redundancy is load sharing and switches over automatically in the event of a failure. Power can be either 12VDC (standard), 24VDC, -48VDC, 125VDC or 115/230VAC with an external power cube. Standalone versions are modular, i.e. used either in a standalone case or in a rackmount assembly. Standard connectors are ST, SC or FC type.

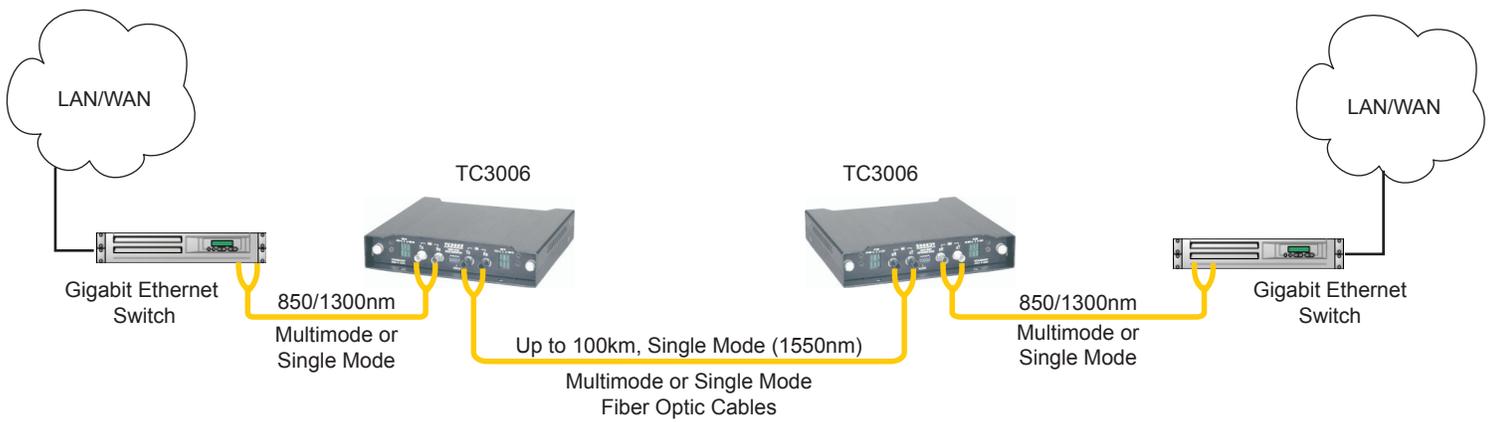
Four DIP switches and eight LED indicators are provided to help installation and troubleshooting. A hardened temperature version (-20°C to 70°C), Model TC3006T, is also available.



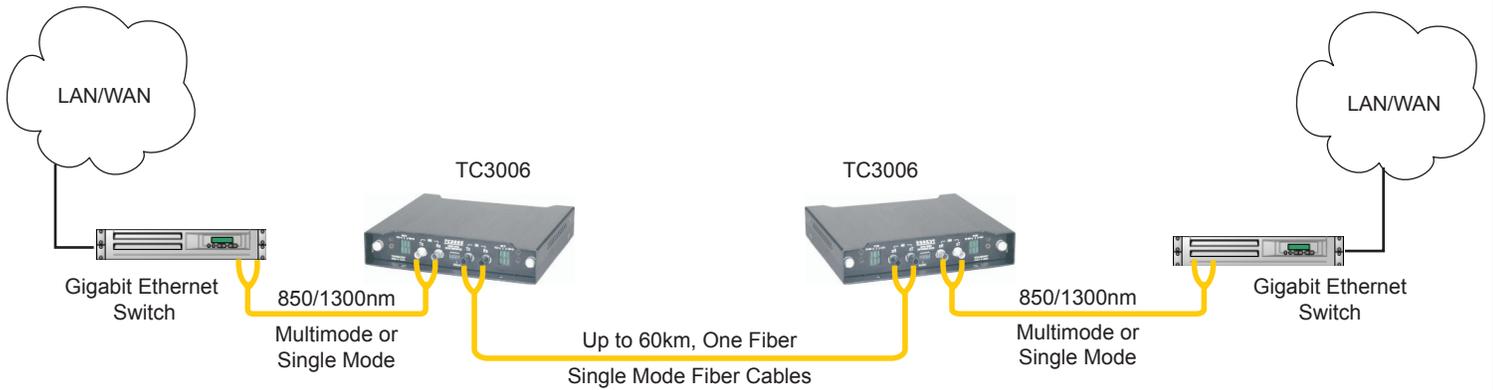
Applications

The MAXI Mode Converter is used to convert multimode to single mode, or vice versa, in a variety of LAN environments including Gigabit Ethernet Switches and Routers. This conversion is done to cross-connect different fiber types, regenerate optical signals and/or extend transmission distances. It can also be used to repeat a Gigabit signal on multimode or single mode fibers.

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Typical Application Using TC3006 Fiber Optic Mode Converter/Repeaters.



Typical Application Using TC3006s to Link Two LAN/WANs via One-Fiber Bi-Directional Optics.

Data Rate

..... 1000 Mbps

Optical

Transmitter LED/LASER

Receiver.....PIN Diode

Wavelength

.....850/1300nm Multimode

.....1300/1550nm Single Mode

Fiber Optic ConnectorsST, SC, FC

Loss Budgets*

LED16dB 850/1300nm

Multimode @62.5/125µm

LASER25dB 1300nm

Single Mode @9/125µm

HI-PWR LASER ...34dB 1300/1550nm

Single Mode @9/125µm

*Any two wavelengths are available on each unit

System

Bit Error Rate1 in 10¹⁰ or better

Visual Indicators

.....PWRA, PWRB, VCCA, VCCB,

.....MM RX, MM TX, SM RX, SM TX

Alarm

Dry Contact.....Normal OPEN

Power

Standard.....12VDC @800mA (max)

Optional.....24VDC, -48VDC, or

.....115/230VAC with power cube

Temperature

Operating-10°C to 50°C

Hi-Temp (optional)-20°C to 70°C

Storage.....-40°C to 90°C

Humidity95% non-condensing

Physical (Standalone Unit)

Height.....(3.53 cm) 1.39"

Width.....(18.13 cm) 7.14"

Depth.....(16.59 cm) 6.53"

Weight.....(512 gm) 1.5 lbs



ISO 9001
QMI-SAI Global
#1045959

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