Switching/Bridging Ethernet Fiber Media Converter w/ Rate Control

Model TC3240

- 3 Ports 10/100 Base-T with Auto-Negotiation and Auto-Sensing
- 1 Port 100FX: Multimode (1300nm) or Single Mode (1300/1550nm)
- Rate Control (32Kbps to 100Mbps, in 32K increments) and VLAN
- Network Management (Web, SNMP, Telnet)
- Remote Firmware Upgrade
- Extreme Temperature version exceeds NEMA & CALTRANS specs (-40°C to 80°C)
- One Fiber Bi-Directional Optic Optional
- Huge Frames supported (up to 1916 byes)
- Configuration Save and Load
- Power Monitoring

TC3240 Standalone

TC3240 Rackmount

The TC3240 10/100M 4-port Switching Fiber Optic Ethernet Media Converter converts or connects 10/100Base-TX (UTP) networks to 100Base-FX (fiber optic) networks. Transparent to the network, it operates effectively even during high-demand traffic loads.

Rate Control gives users, especially data service providers, the ability to control or limit bandwidth. Management is accessed via Web, SNMP, Telnet, or Console. Password protection, multiple user groups, and IP Aliasing provide multiple security features. Huge Frame (1916 bytes) is supported and Power Monitoring verifies functionality.

Configuration settings can be stored and recovered to simplify network administration, and firmware can be remotely upgraded. Virtual LAN (VLAN) and Network Time Protocol (NTP) are supported.

The TC3240 supports single mode distances up to 100 km (1550nm laser) and works with all standard fiber optic cable. A one fiber bi-directional single mode version is available. Fiber optic connectors are ST, FC or SC. The UTP connector is RJ-45 Female.

Standard temperature range is -10°C to 50°C. Optionally, the high-temp version ranges -20°C to 70°C. The optional extreme-temp version ranges from -40°C to 80°C.

Power source options include 12 VDC, 24VDC, -48VDC, 125VDC or 115/230VAC with an with an external power cube, and power redundancy is standard. TC3240 is available standalone or rack mount (up to 10 cards per Rack Assembly).

Applications

The TC3240 is frequently used by Data Service Providers to control the bandwidth they offer to customers. It is also used for its ability to transmit over long distances (100km or farther) without connecting to additional hardware, e.g. a Switch or Repeater. The Hardened Temperature option enables it to be used in extreme environments.
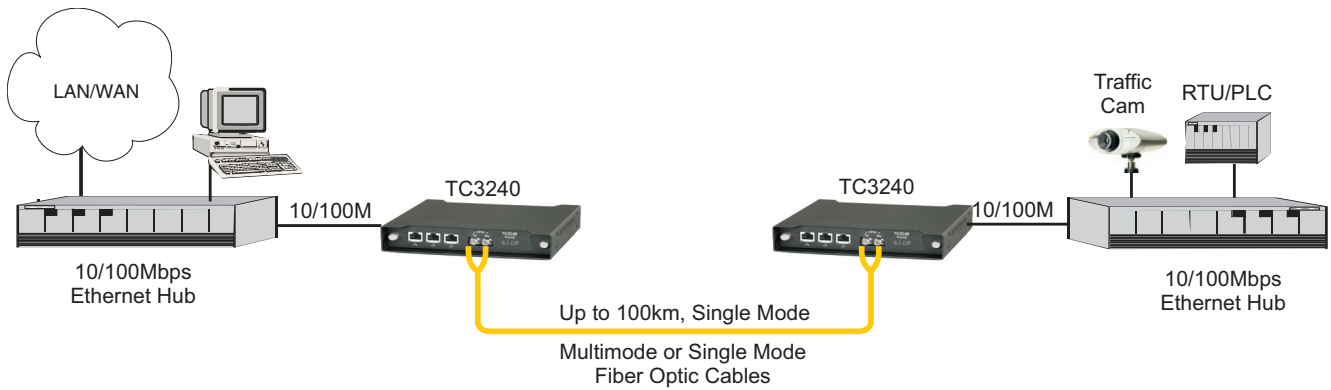
Typical application using TC3240s to extend a Fast Ethernet link between two Hubs
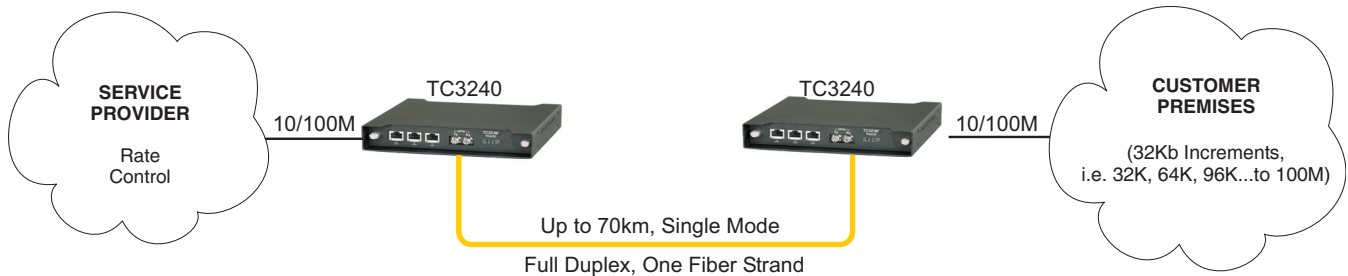
Typical application using TC3240s to extend a Fast Ethernet link via a "Single" fiber strand

Data Rates
..........10/100 Mbps (auto-sensing)

Rate Control...............32K, 64K, 96K

......99.9M, 100M, 32K Increments

Optical
Transmitter...................ELED/LASER*

Receiver.............................PIN Diode

Wavelength

....................................1300nm MM

...........................1300/1550nm SM

Fiber Optic Connectors

.....................ST, Optional FC or SC

Loss Budget* - 1300/1550nm

Multimode @62.5/125μm.......15dB

Single Mode @9/125μm 20dB

Electrical
Connector ....RJ45 Female

Interface.......................10/100Base-T

System
Bit Error Rate ....1 in 10^{10} or better

Visual Indicators
ALM, LINK, FULL, 100M, PWR A,
PWR B, VCC, DFLT

Diagnostic Functions
...............................Traffic Statistics

Alarm
Dry Contact.................Normal OPEN

Power
Standard ....12VDC @<400mA

Optional ....24, -48, 125VDC or
115/230VAC (w/ external cube)

Temperature
Operating ....-10°C to 50°C

Hi-Temp (optional)......-20°C to 70°C

Hardened (optional)...-40°C to 80°C

Storage ....-40°C to 90°C

Humidity ....95% non-condensing

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

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

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

Weight.....................(544 gm) 1.2 lbs

Contact factory for higher requirements