Switching/Bridging Ethernet Fiber Media Converter w/ Rate Control

TC3240

- **3 Ports 10/100 Base-T**
- **1 Port 100FX: Multimode (1300nm) or Single Mode (1300/1550nm)**
- **Rate Control and VLAN (IEEE 802.1Q)**
- **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**
- **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 IEEE 802.1Q) 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.
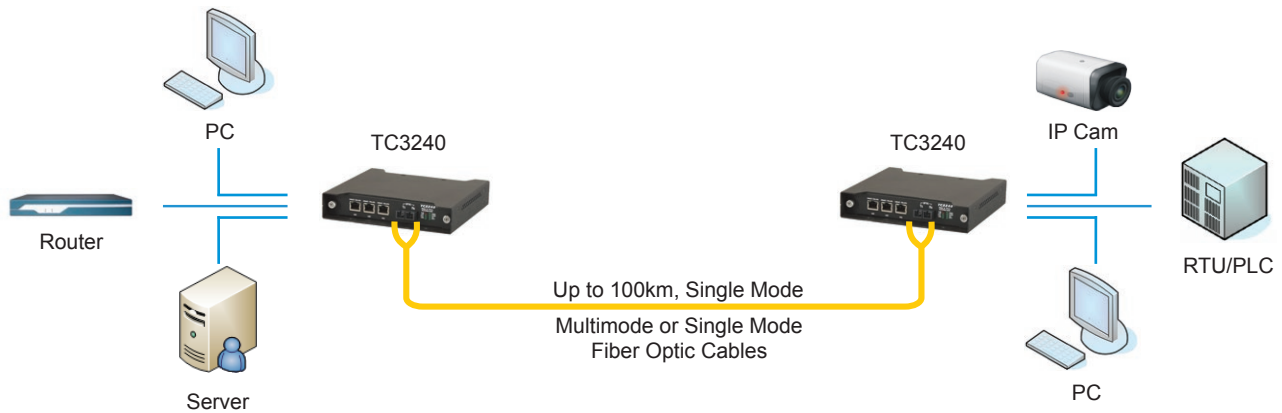
Power source options include 12 VDC, 24VDC, -48VDC, 115/230VAC with an external power cube, and power redundancy is standard. TC3240 is available standalone or rack mount (up to 10 cards per Rack Assembly).

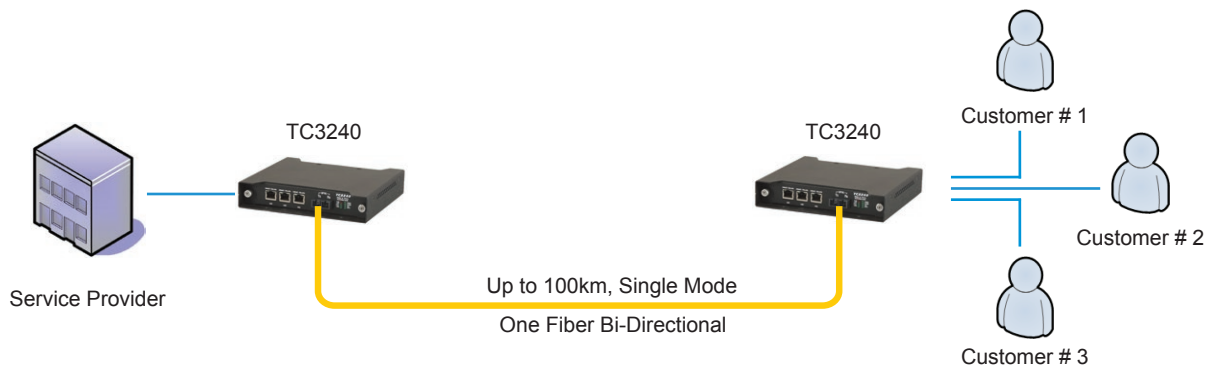## TC COMMUNICATIONS®
FIBER OPTIC CONNECTIVITY

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 network

Typical application using TC3240S to extend a Fast Ethernet link via a One Fiber Bi-Directional Optic

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....................24VDC, –48VDC,
............or 115/230VAC w/ power cube

Temperature
Operating.....................–10°C to 50°C
Hi-Temp1 (optional)....–20°C to 70°C
Hi-Temp2 (optional)....–40°C to 80°C
Storage.........................–40°C to 90°C
Humidity............95% non-condensing

Physical (Standalone Unit)
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

TC COMMUNICATIONS®
FIBER OPTIC CONNECTIVITY

Certified System ™

ISO 9001
QMI-SAI Global
#1045959

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Note: Information contained in this data sheet is subject to change without prior notice.