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10/100/1000Base-T to Fiber Ethernet Media Converter

Model TC3300

- 10/100/1000Base-T to Fiber Conversion
- 10/100/1000 Auto-Negotiating
- Multimode or Single Mode (850/1300/1550nm)
- Two-way Communication on One Fiber (optional)
- Distances up to 100Km
- Built-In Power Redundancy
- Local Dry Contact Alarm Relay
- Hardened Temperature version exceeds NEMA & CALTRANS specs
- Rackmount or Standalone



TC3300S Standalone Unit



1 x TC3300R (Housed in TCRM192 19" Wide, 4U High Rackmount Card Cage)

Featuring an "Industrial-Hardened" version for extreme environments, the TC3300 Gigabit Ethernet Fiber Optic Converter supports distances up to 100km and is available with an option for 2-way communication on one fiber strand.

The TC3300 is IEEE802.3z/AB 1000Base-T, SX and LX compliant. It converts or connects 10/100/1000Base-TX unshielded twisted-pair devices (e.g. network bridges, switches, or workstation cards) to single mode (1300/1550nm) or multimode (1300nm) fiber optics.

Completely transparent to the network, the TC3300R/S is ideal for integrating UTP and fiber optics in any Ethernet, Fast Ethernet and Gigabit Ethernet network. It is designed with modern Field Programmable Gate Array (FPGA) technology and operates efficiently even during high-demand traffic loads.

It is available in three temperature versions: -10°C to 50°C; -20°C to 70°C; and, a fully Industrial-Hardened version that supports ranges from -40°C to 80°C. The Industrial-Hardened version exceeds all pertinent Utility and Traffic Control environmental and temperature specifications.

Diagnostics include eight LEDs for Ethernet settings and Ethernet/Power status. Dry contact alarms are provided for connection to remote network management systems. It is available standalone or rack mount. The TC3300S is the standalone/wallmount unit. The TC3300R rackmount version fits into the Model TCRM192 or TCRM196 19" rackmount card cages.

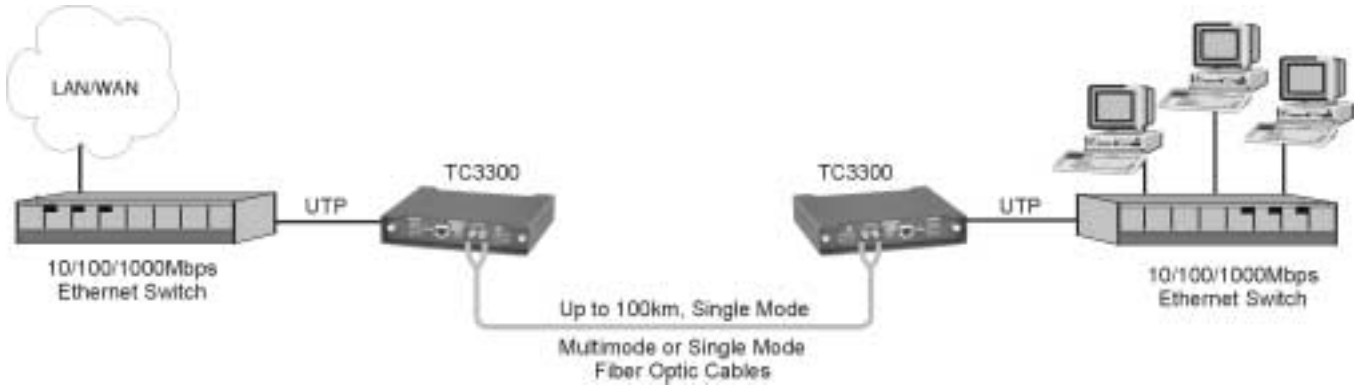
Fiber optic connectors are ST, SC, or FC. The UTP connector is RJ-45 female. Power is 12VDC @ 300mA (standard); optional power sources include 24VDC, -48VDC, 125VDC, or 115/230VAC with an external power cube.

TC COMMUNICATIONS
FIBER OPTIC CONNECTIVITY

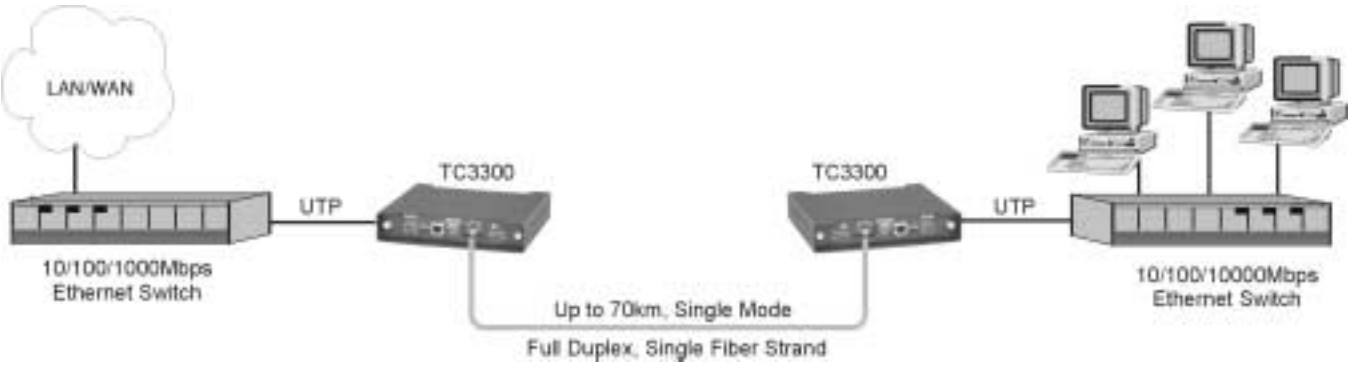
Applications

The TC3300 is typically used to interconnect 10/100/1000 Mbps switching hubs, switches, workstations or any other Ethernet compliant device at distances up to 100km.

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Typical application using TC3300s to extend a Gigabit Ethernet link between two Switches



Typical application using TC3300s to extend a Gigabit Ethernet link via a "one fiber" strand

Data Rates
10/100/1000 Mbps (auto-sensing)

Optical
Transmitter.....ELED/LASER*
Receiver.....PIN Diode
Interface
.....1000Base-SX, 1000Base-LX
Wavelength
.....850nm Multimode
.....1300/1550nm Single Mode
Fiber Optic Connectors
.....ST, FC, SC**
Loss Budget* - 1300nm
Multimode @62.5/125µm 12dB
Single Mode @9/125µm.....20dB
Single Mode @9/125µm.....25dB

Electrical
Connector .....RJ45 Female
Interface.....10/100/1000Base-T

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

Visual Indicators
PWR A, PWR B, FO, TP, 10M, 100M, 1000M, FDX

Alarm
Dry Contact.....Normal OPEN

Power
Standard .....12VDC @300mA
Optional .....24, -48,125 VDC or 115/230VAC (w/ ext power 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 (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*

***Contact factory for availability*

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