10/100Base-T to 100Base-FX Ethernet Media Converter

TC3212

- Link Distances up to 80km*
- One-Fiber Bi-Directional Communication (optional)
- Multimode or Single Mode (1300/1550nm)
- Full or Half-Duplex Operation
- Seven LED Status Indicators
- Power: 12VDC, 24VDC, -48VDC or 115/230VAC
- Operating Temp -10°C to 50°C (Extreme Temp -40°C to 80°C optional)

TC3212R/S (shown in a standalone chassis)

Featuring distances up to 80km*, the TC3212 10/100Base-T Ethernet Fiber Optic Converter provides a 100Base-FX port that combines Ethernet Switching with the benefits of fiber optic technology to boost network bandwidth, security and immunity from electro-magnetic Interference (EMI) and ground loops.

The TC3212 comes standard with one fiber port and one Ethernet copper auto-sensing switching port. The Ethernet port supports 10/100Base-T.

Specifically designed for long distances, the TC3212 can extend LAN segments up to 80km*. A one-fiber, bi-directional communication option is also available to maximize fiber optic cable usage. Seven diagnostic status LEDs are provided:

Power:
- "PWR"..... DC Power Supply Indicator
- "VCC"..... VCC Voltage Indicator

Fiber:
- "LNK"..... Link and Activities Indicator
- "SDET"..... Signal Detect
- "SPD"..... Fiber Port Speed (Pocket Rocket)
- "100FX"..... Fiber Port Speed (Standalone)

Copper:
- "LNK"..... Link and Activities Indicator
- "SPD"..... Indicate Speed 10M or 100M (Pocket Rocket)
- "100M"..... Indicate Speed 10M or 100M (Standalone)

Alarm:
- "ALARM"..... Loss of Fiber or Copper Signal

The TC3212 works with all popular sizes of single mode and multimode fiber optic cable. Fiber optic connectors are ST, FC or SC. Electrical connector is RJ-45 Female. Power is 12VDC, 24VDC, -48VDC or 115/230VAC with an external power cube. The standard operating temp is -10°C to 50°C (extreme temp -40°C to 80°C optional) .

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Applications

The TC3212 is frequently used to extend or connect Ethernet segments up to 80km*. Typical applications include linking Ethernet Switches or workstations.

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* Contact factory for higher requirements/availability

Typical Application Using TC3212 to Link an IP Camera Via Fiber

Data Rates
10/100 Mbps

Optical
Transmitter ..... LASER
Receiver ..... PIN Diode
Wavelength ..... 1300nm Multimode
1300/1550nm Single Mode
Fiber Optic Connectors ..... SC
Optional FC, ST
Loss Budget* - 1300/1550nm
Multimode @62.5/125µm 15dB
Single Mode @9/125µm 20dB
One Fiber (Bi-Directional
Communications) ..... Up to 80Km

Electrical
Connector ..... (UTP) RJ45 Female

Visual Indicators
Power Status..... PWR, & VCC
Alarm Status..... ALARM
UTP Signal Status ..... LNK, 100M
Optic Signal Status
..... LNK,100FX, SDET

Ethernet Standards
IEEE 802.3, 802.3u, 802.3x
..... 10/100Base-T, 100Base-FX

Power
Standard 12VDC
Optional..... 24VDC, -48VDC,
..... 115/240VAC with power cube

Temperature
Standard Temp ..... -10°C to 50°C
Hi-Temp (optional)..... -20°C to 70°C
Extreme Temp (optional)-40°C to 80°C
Storage ..... -40°C to 90°C
Humidity..... 95% non-condensing

Physical (Standalone)
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

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

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TAA Compliant

TC Communications Quality Management System is certified as being in conformity with ISO 9001:2015 by Intertek

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