

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

TC3212

- Compact Design ("Pocket Rocket" chassis)
- 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)



TC3212 (shown in a compact "Pocket Rocket" chassis)



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)

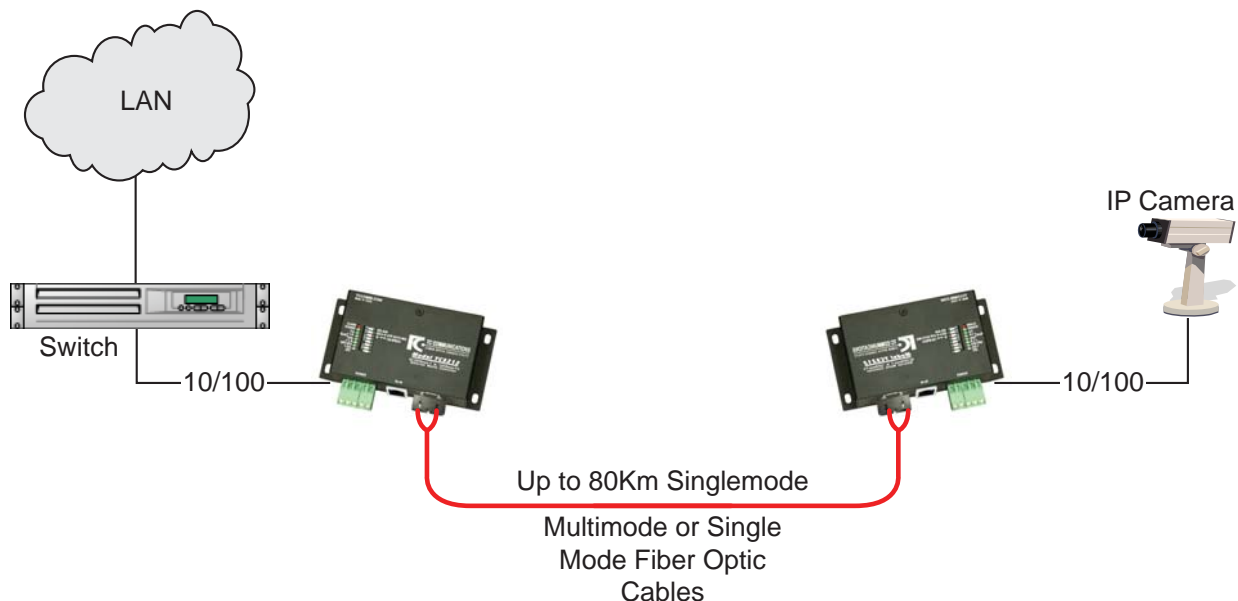
\* Contact factory for higher requirements/availability



## 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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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, SPD (Pocket Rocket)

..... LNK, 100M (Standalone)

Optic Signal Status

..... LNK, SPD, SDET (Pocket Rocket)

..... LNK,100FX, SDET (Standalone)

**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**

Operating.....-10°Cto50°C

Hi-Temp(optional).....-20°Cto70°C

Extreme-Temp (optional)..-40°Cto80°C

Storage.....-40°Cto90°C

Humidity .....95% non-condensing

**Physical (Pocket Rocket)**

Height.....(2.86cm) 1.13"

Width.....(12.7cm) 5"

Depth.....(6.6cm) 2.6"

Weight .....(173 gm) 6.1 oz

**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

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ISO 9001  
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