TX2FX

Ethernet Media Converter
Copper to Fiber Optic

General Description

The TX2FX is an Ethernet media converter that translates transmission signals from a twisted-pair 10/100/1000Base-TX cable to a 100Base-FX or 1000Base-X fiber optic cable. It expands network data transmission distances beyond the 100 meter limitation of copper wire to over 10 kilometers by using single-mode fiber optic cable.

For the fiber optic port any standard Small Form factor pluggable (SFP) transceiver module can be used on the TX2FX. These SFP transceivers modules are available with a variety of different transmitter and receiver types, allowing users to select the appropriate transceiver for the required fiber optical interface.
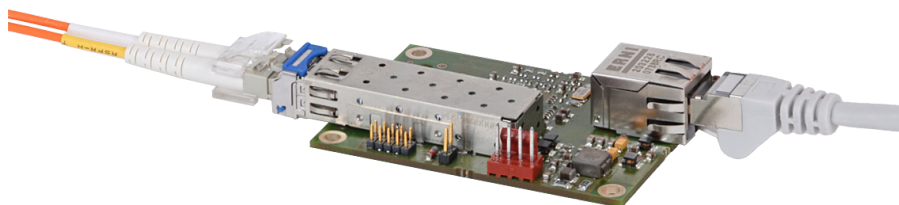
Further the TX2FX provides automatic detection and initializing of the SFP Module and has easy-to-read diagnostic LEDs for continuous status reports on network speed, traffic and fiber optic port status.

TX2FX Specialties

- Triple Speed (10/100/1000MBit) Copper Ethernet Interface
- Automatic detection and initializing of the SFP Module (100MBit-FX or 1000MBit-X over standard SFP Module)
- Single wide Power Supply input (5 to 28VDC)
- 3 different mechanical versions
- Extended temperature option -40°C to +85°C
- Configurable Flow Control, Link Loss Forwarding and Link Speed Forwarding
- Jumbo Frame supported

These features make

the TX2FX ideally suited for industrial applications. The TX2FX helps to expand your network distances!

TX2FX-12 module

Jumbo Frame support

TX2FX-11 module

Board Key Data

Copper Port	on RJ45 (10/100/1000Mbit) supports auto crossover, polarity correction
Fiber Optic Port	over standard SFP transceivers supports single- and multi-mode, 100MBit -FX or 1000MBit -X
Status LEDs	2 LEDs for each RJ45 port 2 LEDs for each SFP port

Physical / Power

Size (L x W x H)	75.7 x 50.0 x 16.0 mm
Power	5VDC to 28VDC
Power consumption	1.8W 1GBit copper/optical link
Temperature Range	standard -20°C up to 60°C, optional -40°C up to 85°C
Humidity	5% - 95% non condensing, optional coating available

TX2FX Versions

TX2FX-11	RJ45 and SFP on same side, with Jumbo Frames support
TX2FX-12	RJ45 and SFP on opposite side, with Jumbo Frames support
TX2FX-13	two copper ports RJ45 and one SFP port

SFP (optical transceiver) in stock

SFP-1X	2/1GBit 850 nm, multi mode, up to 500m, -40°C to +85°C
SFP-2X	1GBit 1310 nm, single mode, up to 10km, -40°C to +85°C
SFP-3X	100MBit 1300 nm, multi mode, up to 4km, -40°C to +85°C

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