

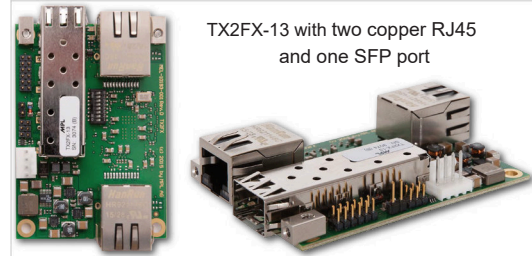
Ethernet Media Converter Copper to Fiber Optic

General Description

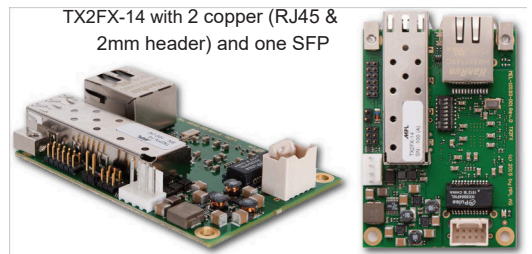
The TX2FX is an Ethernet media converter that translates transmission signals from a twisted-pair 10/100/1000Base-TX cable to a 100Base-FX or 1000Base-X fiber optic cable. It expands network data transmission distances beyond the 100 meter limitation of copper wire to over 10 kilometers by using single-mode 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-13 with two copper RJ45 and one SFP port



TX2FX-14 with 2 copper (RJ45 & 2mm header) and one SFP

TX2FX Highlights

- 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 36VDC)
- Copper on RJ45 or lockable header
- Extended temp. option -40°C to +85°C
- Configurable Flow Control, Link Loss Forwarding and Link Speed Forwarding
- Jumbo Frame supported
- Variants with two copper ports + SFP
- Can be a switch (TX2FX-13/14 only)



All MPL products are 100% designed and manufactured in Switzerland.

If you need a 3D STEP file for the TX2FX, please contact us.

Board Key Data

Copper Port	on RJ45 (10/100/1000Mbit) or 2mm header 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 / 1 LED for SFP port

Physical / Power

Size (L x W x H)	75.7 x 50.0 x 16.0 mm
Power	5VDC to 36VDC
Power consumpt.	1.8W 1Gbit copper & 1Gbit optical link 2.5W 2x 1Gbit copper & 1x 1Gbit optical link

Environment

Temp. Range	standard -20°C to 60°C, optional -40°C to 85°C
Humidity	5 - 95% non condensing, optional coating available

SFP (optical transceiver) in stock

SFP-1X	2/1Gbit 850nm, multi mode, up to 500m, -40 to +85°C
SFP-2X	1Gbit 1310nm, single mode, up to 10km, -40 to +85°C
SFP-3X	100Mbit 1300nm, multi mode, up to 4km, -40 to +85°C or any other standard SFP in accordance to MSA & Ethernet compatible

TX2FX Versions

Product:	
TX2FX	Media Converter

Family:	
1	1x Family

TX2FX-11RH

Copper Ports Connector:	
(blank)	RJ45
H	Vertical header
RH	Right angled header

Options:	
1	1 copper port on same side as the SFP port
2	1 copper port on opposite of the SFP port
3	2 copper ports
4	2 copper ports RJ45 on SFP side, header on opposite side

MPL AG is an ISO9001 certified company