

Dättwil, November 2008

Small, Rugged and Flexible Ethernet Media Converter Easy Copper-to-Fiber Conversion with flexible SFPs

MPL launches with the TX2FX a new Ethernet Media Converter family that performs copper-to-fiber conversion. It features a versatile design that allows different combinations of fiber and copper LAN port.

The TX2FX is a 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 ten kilometers by using single-mode fiber optic cable.



For the optical port the TX2FX supports Small Form-factor Pluggable (SFP) transceivers. SFPs enable adaptability to different fiber types, distances and wavelengths, providing maximum flexibility across a variety of network architectures and topologies. SFP ports are ideal for flexible choices of the transceiver distance needed.

On the copper side the TX2FX offers a 10/100/1000 Mbit port accessible on a standard RJ45 connector. Of course the port supports "auto-crossover" and "auto-negotiation" to enable attaching any 10 Mbit, 100 Mbit, or 1 Gigabit device to them.

The products is available in two basic versions that differ in the mechanical

port adjustment. Either the copper and fiber optical port are placed side by side or opposite each other. The compact design of the module is ideal for industrial network edge installations.

Special is the single wide power supply input reaching from 5V to 28V. This wide input voltage range further simplifies the integration of the module into a system.

Due to the robust design, the low power consumption as well as the flexible configuration possibility of the module, the TX2FX can be used basically in any industrial and/or tough environment. On request the product is also available in an extended temperature range from -40°C up to $+85^{\circ}\text{C}$. TX2FX helps to expand your network distances!

Of course MPL offers the TX2FX also built-in inside their widely used and well known Packaged Industrial PC family called PIP. This fanless, long-term available, reliable, rugged and robust Embedded PCs are offered with various different CPUs up to a Core 2 Duo. With a built-in TX2FX module those compact and powerful systems can easily be expanded with a fiber optic Ethernet port!

More information about the TX2FX, other innovative products or MPL can be found on our Home Page under www.mpl.ch or you may send an email to sales@mpl.ch.