100/1000BASE-T1 SFP MODULE H-MTD

APPLICATION

Convert between 100/1000BASE–T1 (Automotive Ethernet) and SGMII Interface.

100/1000BASE-T1 SFP MODULE H-MTD

DESCRIPTION

The **100/1000BASE-T1 SFP Module H-MTD** is a solution for devices with SFP+ ports to convert between 100/1000BASE-T1 Automotive Ethernet and SGMII. It fits into a standard Small Form-factor Pluggable (SFP+) port and generates 100/1000 Mbit/s full-duplex communication.

When plugged into approved devices, it configures itself to Automotive 100/1000BASE-T1 after power up. The device features four dip switches for the following functionalities:

- Dip switch no. 1: Slave/ Master setting
- Dip switch no. 2: 100/1000Mbps
- Dip switch no. 3: IEEE/Legacy mode
- Dip switch no. 4: SingleSendS/MultipleSendS mode

Registers of the integrated Transceiver are accessible via I2C interface for diagnostics and reconfiguration.

It works seamlesly with our MediaGateway or the Enhanced Ethernet Switch (EES), but also for further 3rd party devices. For your specific application, please contact us at technicalsales@technica-engineering.de.

FEATURES

- ✔ Conversion between 100/1000BASE-T1 and SGMII
- ✔ Marvell 88Q2112 A2 PHY
- ✔ Fits into a standard SFP+ slot
- ✔ Power requirements: 3.3 Volt DC
- ✔ Supports I2C for internal register access
- ✔ Power requirements: 3.3 Volt DC
- ✔ Status LEDs
- ✔ Four dip switches to select Slave/ Master, 100/1000Mbps, IEEE/Legacy mode, and SingleSendS/MultipleSendS settings
- ✔ Size: 68 x 14 x 14 mm

SFP DEVICE (e.g. MEDIA GATEWAY or EES)

_____ Gigabit Ethernet (SFP)

100/1000BASE-T1 SFP MODULE H-MTD

_____ 100/1000BASE-T1

100/1000BASE-T1 DEVICE