Product Overview



Fast Ethernet Media Converter 100Base-FX/ 10/100Base-TX



Description

Using Fast Ethernet converters end devices with 10/100Base-TX copper interfaces, e.g. switches, routers and bridges, can be connected over longer distances via multimode or single mode fiber optic routes.

Depending on the area of application, the converters are available with different optical parameters. In addition to standard multimode applications for transmissions of up to 2 km, there are single mode versions for 15 km, 40 km, 80 km and 125 km available.

The link status of a segment is fed further by the converter, i.e. a missing link on the fiber optic side does not generate a link signal on the TP side.

There are two options available for the power supply connection. The power supply is realized by an external power supply (contained in the delivery package). Connection can also be made via a cost-effective jack (standard) or by a sturdy threaded connection.

Properties

- Cost-effective and repeater-less media conversion
- Logical linking of the link status (link through)
- Optional robust screwed connection for external power supplies
- Metal housing, robust design

Specifications

General

TypeEthernet media converter for
coupling of Twisted pair
(10/100Base-TX) and fiber
(100Base-FX) segments

Uplink (Fixed Optical Transceiver)

Number of Ports	1	
Туре	Fast Ethernet, 100Base-FX	
Connector	SC or ST duplex	
Fiber Cable Type	Multimode: 50 or 62.5/125µm fiber or Single Mode: 9/125µm fiber	
Distance	Multimode: 2 km Single Mode: 15 km, 40 km, 80 km, 125 km	
Output Optical Power	Multimode 1300nm: min18dBm Single Mode 1300nm 15km: min11,5dBm Single Mode 1300nm 40km: min3dBm Single Mode 1550nm 80km: min5dBm Single Mode 1550nm 125km: min. 1.8dBm	
Receiver Sensitivity	Multimode 1300nm: min31dBm Single Mode 1300nm 15km: min31dBm Single Mode 1300nm 40km: min38dBm Single Mode 1550nm 80km: min37dBm Single Mode 1550nm 125km: min37dBm	

Local Ports (Twisted-Pair)

Number of Ports	1
Туре	Fast Ethernet, 10/100Base-TX
Connector	RJ-45 jack, shielded
Cable Type	Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m
Pinout	Pinout of RJ45 connector per switch crossable
Display	
Power	ready for operation
Link	FX-Receive Data received on fiber TX-Link Twisted pair link
Status	Link-Error No fiber link, no twisted pair link generated

Power Supply (DC)

Weight

Housing Color

Input Voltage	5 V DC / max. 1500 mA via external power supply
Connector	Connector 2.1 mm jack plug, optional screw connector
Mechanical	
Dimensions	83 mm x 60 mm x 21 mm (w x d x h)

395g

black

Environment

Operating Temperature	0 55°C
Storage Temperature	-2080°C
Relative Humidity	5% to 80% non condensing

Order Information

Description

Article Number

Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Multimode, 2 km, include power supply	MS410640-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Multimode, 2 km, include power supply	MS410641-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Single mode, 40 km, include power supply	MS410646-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Single mode, 40 km, include power supply	MS410647-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Multimode, 2 km, include screwable power connector	MS410511-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Multimode, 2 km, include screwable power connector	MS410512-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Single mode, 15 km, include screwable power connector	MS410513-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1550 nm Single mode, 80 km, include screwable power connector	MS410518-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1550 nm Single mode, 125 km, include screwable power connector	MS410519-V2
Media Converter 100Base-FX/ 10/100Base-TX, 1300 nm Single mode, 40 km, include screwable power connector	MS410523-V2

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