Product Overview

Fast Ethernet Bridging Converter 10/100Base-T/100Base-FX

Description

The Fast Ethernet bridges are mainly used in company networks in order to universally combine copper and fiber optic media. In addition to the media conversion, speed matching for 10 and 100 can also be made. Therefore it is possible to integrate older 10 Mbps network equipment into a Fast Ethernet Network.

The equipment is designed as a compact desktop device with an external power supply (included in the delivery package). In addition to the individual use of the device, a central arrangement can be made for which a 19" rack is available with and integrated power supply (also redundant as an option).

Properties

- Media conversion from twisted-pair to multimode or single mode fiber
- Optional versions for simpex fiber available (WDM)
- Speed conversion 10/100 Mbps (bridge mode)
- Automatic selection of half or full duplex mode

Specifications

General

Type	Fast Ethernet Bridging Converter to connect Twisted-Pair (10/100Base-TX) and Fiber Optic (100Base-FX) segments
Performance	Uses store-and-forward switching to separate two collision domains

Uplink (Fixed Optical Transceiver)

Number of Ports	1
Type	Fast Ethernet, 100Base-FX
Connector	SC duplex, WDM Version SC simplex
Fiber Cable Type	(Multimode): 50 or 62.5/125µm fiber (Single Mode): 9/125µm fiber
Distance	Multimode: 2km Single Mode: 30km WDM Version: 20km
Output Optical Power	Multimode 1310nm: min. -18dBm Single Mode 1310nm 30km: min. -6dBm Single Mode WDM 20km: min. -10dBm
Receiver Sensitivity	Multimode 1310nm: min. -30dBm Single Mode 1310nm 30km: min. -34dBm Single Mode WDM 20km: min. -30dBm

Power Supply (DC)

Input Voltage	MS40021x: 5 VDC (ext. power supply) / max. 1A MS40022x: 9 VDC (ext. power supply) / max. 0.7A

Mechanical

Dimensions	MS40021x: 94 mm x 71 mm x 26 mm (w x d x h) MS40022x: 119 mm x 85 mm x 26 mm (w x d x h)
Housing Color	black

Local Ports (Twisted-Pair)

Number of Ports	1
Type	Fast Ethernet, 10/100Base-TX
Connector	RJ-45 jack, shielded
Cable Type	Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m
Flow Control	IEEE802.3x Flow Control and Back pressure
Pinout	Auto MDI/MDI-X, auto polarity

Display

Power	Standby Fiber LK/Act: state of FO link (green: Link ; blinking: sending/receiving) FDX/COL: Orange: Full duplex / blinking : collisions / off: Half duplex (or not connected) Port TX: LK/Act: state of TP link (green: Link ; blinking: sending/receiving) 100: Data rate on TP (off : 10 / green: 100 Mbit) FDX/COL: Orange : Full duplex / blinking : collisions / off: Half duplex (or not connected)

Environment

Operating Temperature	0..55°C
Storage Temperature	-20..80°C
Relative Humidity	5% to 80% non condensing.

Standards Compliance

CE Mark	2004/108/EC (EMC) 2006/95/EG (Low Voltage)
IEEE (Ethernet)	802.3i 10Base-T 802.3u 100Base-T 802.3x Flow Control

Order Information

Description	Article Number
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, 1310nm Multimode SC	**MS400210**
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, 1310nm Single Mode SC, 30 km	**MS400212**
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, 1310nm Multimode SC Alternative Article Number: MS400210	**MS400200** **End of Life**
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, 1310nm Single Mode SC, 30 km Alternative Article Number: MS400210	**MS400202** **End of Life**
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, Single Mode SC simplex, 20 km, WDM: TX 1310nm, RX1550 nm	**MS400202A**
Fast Ethernet Bridge 10/100Base-TX / 100Base-FX, Single Mode SC simplex, 20 km, WDM: TX 1550 nm, RX 1310 nm	**MS400202B**