

Product Overview

Gigabit Ethernet Bridge 10/100/1000Base-T/SFP 1000Base-X



Description

The Gigabit Ethernet Bridge has one RJ-45 port with 10/100/1000Base-T and one fiber optic port according to 1000Base-X. For Multimode applications there is a SC version available. The SFP version accepts all SFPs available on the market, which offers a high flexibility.

The device is mainly used in enterprise networks, to combine the media copper and fiber. Besides the media converter, the speed can also be adjusted with 10, 100, and 1000 Mbps. This enables the connectivity of older devices to the converter. An additional application of this device is in Fiber To The Home installations.

Properties

- Compact Desktop Device
- Media conversion 1000Base-T/1000Base-X
- Speed conversion 10/100/1000 Mbps
- Half/full duplex with autonegotiation or manually configurable
- Integrated auto crossover function for the use of standard patch cables

Specifications

General

Type	Gigabit Ethernet Bridging Converter to connect Twisted-Pair (10/100/1000Base-TX) and Fiber Optic (1000Base-X) segments
Performance	Uses store-and-forward switching to separate two collision domains

Uplink (Fixed Optical Transceiver)

Number of Ports	1
Type	Gigabit Ethernet, 1000BaseSX
Connector	SC duplex (MS400220/1)
Fiber Cable Type	MS400220 (Multimode): 50 or 62.5/125µm fiber MS400221 (Single Mode): 9/125µm fiber
Distance	MS400220: 550m (50/125µm fiber) MS400221: 10km (9/125µm fiber)
Output Optical Power	Multimode 850nm: min. -10dBm Single Mode 1310nm: min. -22dBm
Receiver Sensitivity	Multimode 850nm: min. -20dBm Single Mode 1310nm: min. -20dBm

Display

Power	PWR ready for operation FX LNK fiber connection correct FX FDX fiber connection in full duplex mode TP LNK Twisted-Pair connection correct TP FDX TP connection in full duplex mode ACT Activity (Data Transmission)
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Local Ports (Twisted-Pair)

Number of Ports	1
Type	Gigabit Ethernet, 10/100/1000Base-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

Uplink (Pluggable Transceiver)

Number of Ports	1
Type	Gigabit Ethernet, 1000Base-SX
Connector	SFP-Slot (MS400229)

Power Supply (DC)

Input Voltage	9 VDC (ext. power supply included) / max. 0.7A
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Environment

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

Mechanical

Dimensions	26.2 mm x 70.3 mm x 94 mm
Weight	621 g
Housing Color	black

Order Information

Description	Article Number
Gigabit Ethernet Bridge 10/100/1000Base-T / 1000Base-SX, Multimode 850nm SC, ext. power supply	MS400220
Gigabit Ethernet Bridge 10/100/1000Base-T / 1000Base-LX, Single Mode 1310nm SC 10km, ext. power supply	MS400221
Gigabit Ethernet Bridge 10/100/1000Base-T / SFP 1000Base-X, ext. power supply	MS400229

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