

Product Overview

Gigabit Ethernet Bridge 10/100/1000T to 1000X



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 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) |
|--------------|---|

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 |
|----------------------|--|

Environment

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|------------------------------|------------------------|
| 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 | MS400240 |
| Gigabit Ethernet Bridge 10/100/1000Base-T / 1000Base-LX, Single Mode 1310nm SC 10km, ext. power supply | MS400241 |
| Gigabit Ethernet Bridge 10/100/1000Base-T / SFP 1000Base-X, ext. power supply | MS400249 |

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