

Gigabit Ethernet Bridge 10/100/1000Base-T

- Speed adaptation 10/100/1000 Mbps and media conversion
- Flexibility due to pluggable transceiver (GBIC/SFP)
- Full signal regeneration (3R)
- Transparent for VLAN tagging
- Inband-management for monitoring of the line (local and remote)
- Optimal for xWDM applications
- Link transparency due to Link Through and ALM
- Potential free alarm contact (Relay Contact)



Introduction

The MICROSENS Gigabit Ethernet Bridge offers speed adaptation for Ethernet, Fast Ethernet and Gigabit Ethernet copper networks (10/100/1000Base-T) and simultaneous conversion to optical fiber. The bridge complies with the store and forward procedure, enabling segmentation on MAC address level as well as 3R signal regeneration. Therefore network designers can cascade any number of individual Gigabit Ethernet fiber segments.

Modular port design

The fiber port is modular designed equipped with a GBIC or SFP slot. Using pluggable transceivers any media can be combined with any other. This allows connecting twisted-pair or fiber-

optic ports for multimode or single mode transmission.

There is a wide range of GBIC/SFP modules to choose from. Depending on the transceiver module, data can be transmitted over 100 km on a single mode optical fiber without optical repeating. Using GBICs/SFPs with a special digital diagnostic interface it is possible to read the information out of the transceiver. It is possible to get information about the optical transmit and receive power and about the related wavelength. The integrated Link-Through function informs about the connection status of the individual segment.

Versatility and high application use

The Gigabit Ethernet Bridge is part of a wide product

range of access modules which can be installed in a modular 19" rack system. When using the multi-slot chassis, the converter may be combined with any other module of the Enterprise Access family. The access modules can be changed during operation (hot swap) and offer a fast reconfiguration of the complete system.

Management

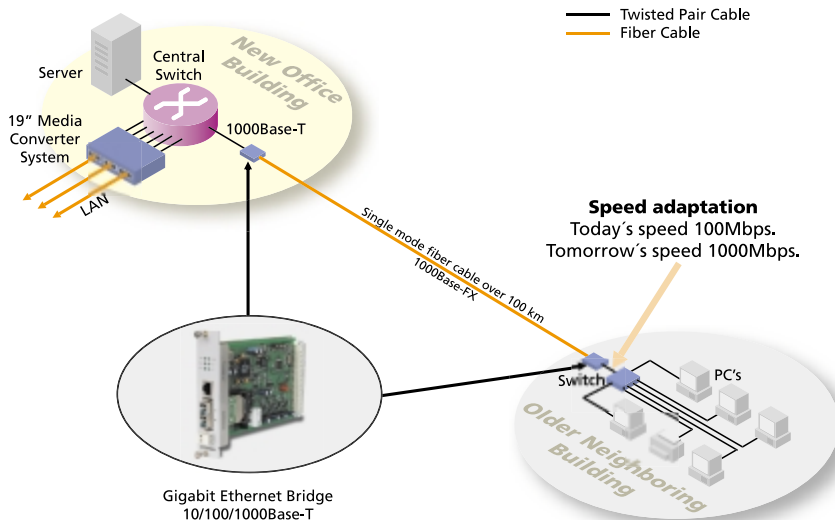
The optional management allows integrating the modules into an existing SNMP- and web based management platform. The integrated inband management operates independently from the management agent and offers the monitoring of the complete line (local and remote side).

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Flexible speed adaptation

With this Gigabit Ethernet Bridge users can connect to the network at exactly the speed they need. The trans-

mission rate can also be set via remote management - a particularly attractive feature for carriers.



Technical Specifications

Type

Gigabit Ethernet Bridge with modular GBIC/SFP-slot

Connectors

10/100/1000Base-T Shielded Twisted Pair cable, 100 Ohm, Category 5e, 1x GBIC or SFP slot

Speed

10/100/1000 Mbps (configuration per autonegotiation or manual via management)

LED displays

PWR Module active
ALARM Link loss
TLNK Twisted-Pair connection correct
TRCV Data received on TX-port
FLNK GBIC connection correct
FRCV Data received on GBIC-Port

Alarm contact

Potential free, max. 60 V DC, max. 0.5 A

Power supply

12 V DC / max. 400 mA via backplane

Operating temperature

0°C to 55°C

Storage temperature

-20°C to 80°C

Dimensions

3 HE x 6 TE (128 x 31 mm)

Management

Standard: inband management (independent from management-agent MS416020)
Optional: via management-agent (MS416020)

Order Information

Part No.	Description	Connectors
MS415180MR	Gigabit Ethernet Bridge 10/100/1000Base-T, 1x SFP Port, Relay Contact, Manageable	1x RJ-45 1x SFP slot Alarm Contact
MS415181MR	Gigabit Ethernet Bridge 10/100/1000Base-T, 1x GBIC Port, Relay Contact, Manageable	1x RJ-45 1x GBIC slot Alarm Contact
MS100100	GBIC Interface Gigabit Ethernet/Fibre Channel 850 nm multimode Transceiver	1x SC duplex
MS100110	GBIC Interface Gigabit Ethernet/Fibre Channel 1300 nm single mode Transceiver, min. 10 km	1x SC duplex
MS100121	GBIC Interface Gigabit Ethernet/Fibre Channel 1550 nm single mode Transceiver, min. 80 km	1x SC duplex
MS100130	GBIC Interface Gigabit Ethernet/Fibre Channel 1550 nm single mode Transceiver, min. 120 km	1x SC duplex
MS100200	SFP Interface Gigabit Ethernet/Fibre Channel 850 nm multimode Transceiver	1x LC duplex
MS100210	SFP Interface Gigabit Ethernet/Fibre Channel 1300 nm single mode Transceiver, min. 10 km	1x LC duplex

Further products available on request

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