

Description

Using Gigabit Ethernet with the 1000Base-SX standard the normal distance limitation is for 50/125 μm fiber 550 m and for 62,5/125 μm fiber 275 m.

The Gigabit extender is for the transmission of Gigabit services over multimode fiber with distances up to 2 km.

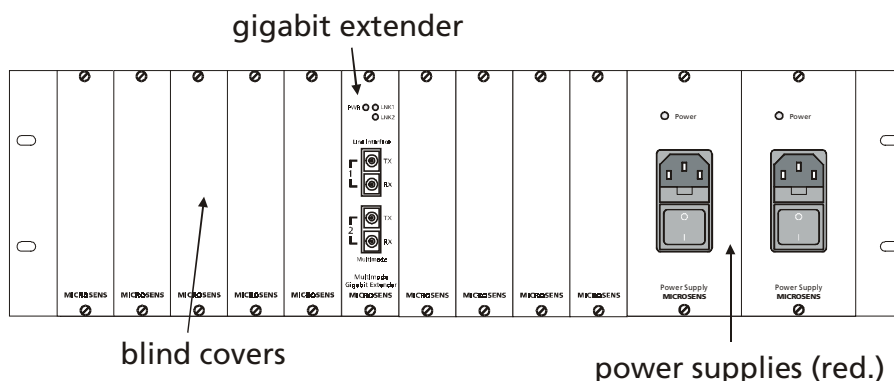
Due to this the migration of existing multimode backbones to future proof Gigabit services can be realised very easy and cost effective. Changing the existing multimode fibers to single mode is not necessary.

The use of this device is not limited to Gigabit Ethernet (1.25 Gbit/s). Also other protocols like Gigabit Fibre Channel (1.0625 Gbit/s) can be transmitted with this converter.

Configuration

The Gigabit extender belongs to a wide product range of modular converter for the mounting in the MICROSENS modular chassis. Beside the desktop chassis with one or two slots, the user can choose between different 19" chassis with up to 12 slots. The converter can be combined with all other modules of the same series. Optional the converter can be integrated into the existing SNMP/web based management platform.

A second power supply (MS416004) can be inserted for redundant power supply. In this case only 10 slots can be used with converter module. If not all slots are used, the unused slots should be covered with blank covers. These blank covers are not included at delivery and must be ordered separately.



Beside the 3 HU chassis there is also a 1 HU chassis for three modules (mounted horizontally) available. This chassis has an internal power supply (MS416006), which can be redundant (MS416007) if necessary.

In addition to these 19" chassis MICROSENS offers also desktop chassis (MS417001).

Technical Specifications

Type	Extender for the extension of the transmission distance for Gigabit services over multimode fiber for the mounting in the MICROSENS modular chassis.	
Fiber types	Multimode 62,5/125 or 50/125 µm, duplex, SC connector	
Data rate	up to 1.25 Gbit/s	
Multimode port	<i>wavelength:</i>	850 nm
	<i>min. power:</i>	-10 dBm
	<i>min. sensitivity:</i>	-20 dBm
	<i>max. distance:</i>	550 m
Line interface	<i>max. distance:</i>	2 km
LED displays	<i>PWR</i> module active <i>LNK1</i> line connection correct <i>LNK2</i> multimode connection correct	
Power supply	12 V DC / max. 400 mA via backplane	
Operating temperature	0°C to 55°C	
Storage temperature	-20°C to 80°C	
Rel. humidity	5% to 80% non condensing	
Dimensions	128 x 31 mm	

Order Designation

Art.-no.	Description	Connectors
MS416651	Gigabit Multimode Extender Multimode 850 nm / 1300 nm	MM: 850 nm SC Line: 1300 nm SC

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