

Media Converter Module Single Mode/Multimode MS416592

MICROSENS

Description

Media converter module for the transparent coupling of single mode and multimode fiber segments. The transparent conversion permits the transmission of different types of protocols up to 1.25 Gbit/s, e.g. Fast Ethernet, ATM 155 Mbit and Gigabit Ethernet.

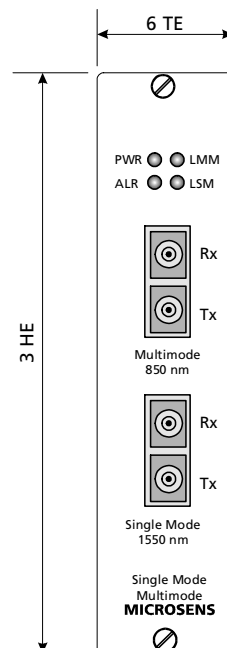
The long distance version uses 1310 nm laser on the single mode side for a maximum typical distance of 10 km.

On the multimode side 1310 nm optic is used for a maximum distance of 550 m on 50/125 μ m fiber.

The converter module fits into different MICROSENS chassis:

- MS416001 chassis 19", 3 HU, max. 12 modules
- MS416006 chassis 19", 1 HU, max. 3 modules
- desktop case for single module.

Dimensions



Technical Specifications

Type	Converter for transparent coupling of single mode and multimode fiber segments.
Fiber types	Single Mode 9/125µm, duplex, SC-connectors Multimode 62,5/125 or 50/125 µm, duplex, SC-connectors
Data rate	max. 1,25 Gbit/s

Single Mode

Wavelength	1310 nm +/- 10 nm
Opt. Power	-8 dBm (9/125 µm, min.)
Opt. Sensivity	-22 dBm (9/125 µm, min.)
Max. Distance ¹⁾	10 km (9/125 µm, 0,25 dB/km, typ.)

Multimode

Wavelength	1310 nm +/- 10 nm
Opt. Power	-8 dBm (850 nm, 62,5/125 µm, min.)
Opt. Sensivity	-22 dBm (850 nm, 62,5/125 µm, min.)
Max. Distance ^{1,2)}	550 m (50/125 µm, 3,5 db/km, 600 MHz*km, typ.)

LED display	<i>PWR</i> Module power ok <i>LSM</i> Single mode link established <i>LMM</i> Multimode link established <i>ALR</i> Link Alert, link failure on SM or MM
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Power supply	12 V DC / max. 500 mA via chassis backplane
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Operating temperature	0°C to 55°C
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Storage temperature	-20°C to 80°C
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Rel. Humidity	5% to 80%, non condensing
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Dimensions	128 x 31 x 170 mm
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1) distances given are based on typical fiber parameters, only optical power budget can be guaranteed.

2) multimode distance dependent on fiber quality, mode conditioning may be required for maximum performance.

Order Designation

Art.-No.	Description	Connectors
MS416592	Transparent media converter module, Multimode 1310 nm, Single mode 1310 nm, max. 1.25 Gbps	1x SC duplex 1310 nm MM 1x SC duplex 1310 nm SM

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