

# Media Converter Module Gigabit Single Mode/Multimode MS416595

**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 1550 nm DFB laser on the single mode side for a maximum typical distance of 70 km.

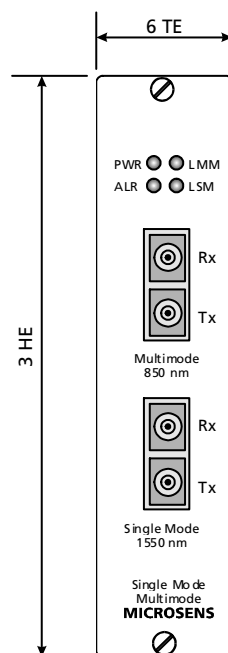
On the multimode side 850 nm VCSEL is used for a maximum distance of 550 m on 50/125  $\mu\text{m}$  fiber.

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.

The module can be managed via SNMP in combination with the SNMP management module MS416020.

## Dimensions



## Technical Specifications

<b>Type</b>	Converter for transparent coupling of single mode and multimode fiber segments.
<b>Fiber types</b>	Single Mode 9/125µm, duplex, SC-connectors Multimode 62.5/125 or 50/125 µm, dulex, SC-connectors
<b>Data rate</b>	max. 1.25 Gbit/s

### Single Mode

---

<b>Wavelength</b>	1550 nm +/- 10 nm
<b>Opt. Power</b>	0 dBm (9/125 µm, min.)
<b>Opt. Sensivity</b>	-24 dBm (9/125 µm, min.)
<b>Max. Distance</b> <sup>1)</sup>	70 km (9/125 µm, 0,25 dB/km, typ.)

### Multimode

---

<b>Wavelength</b>	850 nm +/- 10 nm
<b>Opt. Power</b>	-9,5 dBm (850 nm, 62,5/125 µm, min.)
<b>Opt. Sensivity</b>	-17 dBm (850 nm, 62,5/125 µm, min.)
<b>Max. Distance</b> <sup>1,2)</sup>	550 m (50/125 µm, 3,5 db/km, 600 MHz*km, typ.)

<b>LED display</b>	<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
--------------------	---

<b>Power supply</b>	12 V DC / max. 500 mA via chassis backplane
---------------------	---

<b>Operating temperature</b>	0°C to 55°C
------------------------------	-------------

<b>Storage temperature</b>	-20°C to 80°C
----------------------------	---------------

<b>Rel. Humidity</b>	5% to 80%, non condensing
----------------------	---------------------------

<b>Dimensions</b>	128 x 31 x 170 mm
-------------------	-------------------

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.

## SNMP Management

The converter module can be managed by the SNMP management module MS416020.

Converter status can be accessed via SNMP. Following information is accessible:

- Link status multimode port
- Link status single mode port
- Module temperature
- Module power status

Management information structure is defined in the MICROSENS private MIB and supplied with the module. This private MIB definition permits the integration of the converter management into all standard management platforms (e. g. HP Open View).

## Order Designation

<b>Art.-No.</b>	<b>Description</b>	<b>Connectors</b>
MS416595	Transparent media converter module, Multimode 850 nm, Single mode 1550 nm long distance, max. 1.25 Gbps	1x SC duplex 850 nm MM 1x SC duplex 1550 nm SM

MICROSENS reserves the right to make any changes without further notice to any product to improve reliability, function or design. MICROSENS does not assume any liability arising out of the application or use of any product.  
4699ba