

# Gigabit Ethernet Converter 1000Base-T/1000Base-X

# MICROSENS

## General

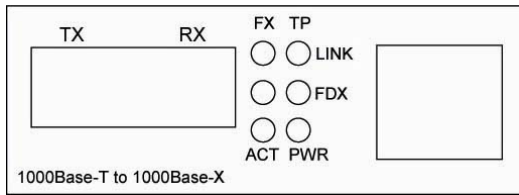
The Gigabit Ethernet media converter offers the direct, repeaterless connection of twisted-pair and fiber segments in a Gigabit Ethernet network. The main use is the cost efficient conversion of twisted pair ports to fiber and the resulting expansion of segments.

Colour coded LEDs inform about the status of the converter and can be used for network diagnostics.

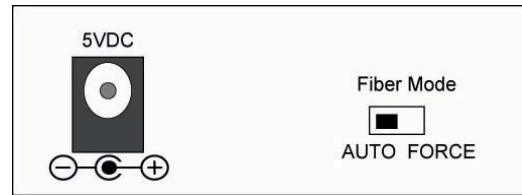
## Technical Specifications

<b>Type</b>	Gigabit Ethernet converter for the connection of twisted-pair- (1000Base-T) and fiber- (1000Base-X) segments		
<b>Fiber types</b>	Single mode 9/125 µm duplex, Multimode 62,5/125 or 50/125 µm, duplex, SC-connector		
<b>Cable type</b>	Shielded twisted-pair cable, 100 Ohm, Category 5e		
<b>Multimode Port</b>	<i>Wavelength:</i>	850 nm	
	<i>min. opt. power:</i>	-10 dBm	
	<i>min. sensitivity:</i>	-20 dBm	
	<i>max. distance:</i>	550 m (50 µm fiber)	
<b>Single mode Port</b>	<i>Wavelength:</i>	1310 nm SM	
<b>FP Laser</b>	<i>min. opt. power:</i>	-8 dBm	-5 dBm
<b>10 km / 20 km</b>	<i>min. sensitivity:</i>	-22 dBm	-22 dBm
	<i>max. distance:</i>	10 km	20 km
<b>LED displays</b>	<i>PWR</i>	Ready for operation	
	<i>FX LNK</i>	Fiber connection correct	
	<i>FX FDX</i>	Fiber connection full-duplex activated	
	<i>TP LNK</i>	Twisted-pair connection correct	
	<i>TP FDX</i>	TP connection full-duplex activated	
	<i>ACT</i>	Data transmission	
<b>Power supply</b>	5 V DC / max. 2 A via external power supply (included at delivery)		
<b>Operating temp.</b>	0 °C to 50 °C		
<b>Storage temp.</b>	-20 °C to 80 °C		
<b>Humidity</b>	5 % to 90 % non condensing		
<b>Dimensions</b>	26.2 x 70.3 x 94 mm (h x w x d)		

**Construction**



Ports for fiber and twisted-pair on the left side



Configuration and power supply on the right side

**Configuration**

- TP-port:                      • fixed configuration: 1000 Mbit/s full-duplex with autonegotiation
- Fiber-port:                    • Auto (Standard): 1000 Mbit/s full-duplex with autonegotiation
- Force: 1000Mbit/s full-duplex without autonegotiation

**Attention:** If used in a pair both converter should be configured to "Force"-mode.

**Order Information**

Art.-No.	Description	Connectors
MS400190	Gigabit Ethernet converter 1000Base-T/1000Base-SX, 850 nm Multimode, max. 550 m	1 x SC duplex 1 x RJ-45 1 x Power
MS400191	Gigabit Ethernet converter 1000Base-T/1000Base-LX, 1310 nm single mode, max. 10 km	1 x SC duplex 1 x RJ-45 1 x Power
MS400192	Gigabit Ethernet converter 1000Base-T/1000Base-LX, 1310 nm single mode, max. 20 km	1 x SC duplex 1 x RJ-45 1 x Power

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