Entry Line
Fast Ethernet and Gigabit Ethernet Bridging Converters

- **Easy Handling (Plug & Play)**
- **Segment splitting and speed adaptation**
- **Compact design for DIN-rail mounting**
- **Redundant power supply-input**
- **Fast/Gigabit Ethernet according to IEEE802.3u/ab/2 and fiber to IEEE802.3z**
- **No extensive configuration**
- **Monitoring via potential-free contact**
- **Extended temperature range**

The new Fast and Gigabit Ethernet Bridging Converters of the Industrial Ethernet Entry Line offer transmission speeds of up to 1 Gbps in Industrial Ethernet applications. In the office area Gigabit Ethernet has already established as the standard protocol. In order to integrate industrial end devices direct, MICROSENS offers directly new Gigabit Ethernet Bridging Converters.

Beside the media conversion from copper to fiber the devices are doing a speed adaptation of 10/100Base-TX for Fast Ethernet and 10/100/1000Base-T for Gigabit Ethernet. This enables the direct connection of end devices with different data rate to the existing central switch.

Additionally the copper ports are having the auto crossing feature. The chassis is designed for mounting the device on 35 mm DIN-rails.

The devices are ready for instant use, a configuration by management is not necessary. With a pluggable connector the power supply is done by external power supplies with a voltage of 12 - 48 V DC. Therefore the device can also be used in telecommunication or power distribution centres (redundant supply possibly). A relay contact allows the monitoring of the devices.

All new Entry Line devices distinguish themselves with easy handling (Plug & Play) and do not need extensive configuration. New developments are focussing on increasing the port numbers.

For applications requiring higher network complexity, the enhanced line of MICROSENS Industrial Switches offers an extended reliability with redundant ring structures and extensive management features.

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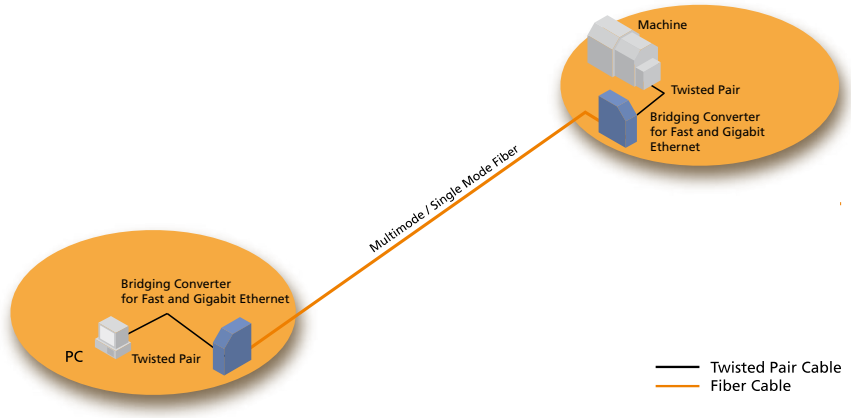
Application



Ordering Information

Art.-No.	Description	Connectors
Fast Ethernet Bridging Converter		
MS655060	Industrial Fast Ethernet Bridging Converter, 1 x 10/100Base-TX / 100Base-FX, Multimode 1310nm SC	1x SC duplex 1x RJ-45 2x Power, 1x Alarm
MS655061	Industrial Fast Ethernet Bridging Converter, 1 x 10/100Base-TX / 100Base-FX, Multimode 1310nm ST	1x ST duplex 1x RJ-45 2x Power, 1x Alarm
MS655062	Industrial Fast Ethernet Bridging Converter, 1 x 10/100Base-TX / 100Base-FX, Single Mode 1310nm SC	1x SC duplex 1x RJ-45 2x Power, 1x Alarm
MS655063	Industrial Fast Ethernet Bridging Converter, 1 x 10/100Base-TX / 100Base-FX, Single Mode 1310nm ST	1x ST duplex 1x RJ-45 2x Power, 1x Alarm
Gigabit Ethernet Bridging Converter		
MS655099	Industrial Gigabit Ethernet Bridging Converter, 1x 10/100/1000Base-T to 1000Base-X	1x SFP 1x RJ-45 2x Power, 1x Alarm

Accessories

Art.-No.	Description	Connectors
MS700420	DIN-rail power supply 24 Watt 24 V / 1.0 A, wide range input 85-264 VAC	In: 3-pin Out: 2-pin
MS700421	DIN-rail power supply 60 Watt 24 V / 2.5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin
MS700422	DIN-rail power supply 120 Watt 24 V / 5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin
MS700434	DC/DC DIN-rail power supply 24 Watt 24 V/1.0 A, wide range input 18-75 V DC	In: 3-pin Out: 2-pin

Further products on request.

1407/jr/fr

Technical Specifications

Type
Industrial Bridging Converter for Fast and Gigabit Ethernet

Fiber type
Multimode 50 - 62,5/125 µm,
Single Mode 9/125 µm, duplex

Cable type
Shielded Twisted Pair cable, 100 Ohm, Category 5,
Pin out RJ45-ports auto crossing

Data rate
10 and 100 Mbps (Fast Ethernet)

10, 100 and 1000 Mbps (GBE)

LED displays
Per unit:
Power1 (green), Power2 (green), Fault (red)

Fiber Link: Link/Activity (green), Half/Full Duplex (yellow)

TX: Link/Active (green), 10/100M (yellow)

DIP switch
DIP Switch 1:
ON: Enables Port/Power Alarm
OFF: Disables Port/Power Alarm

DIP Switch 2:
ON: Enables LT (Link Through)
OFF: Disables LT (Link Through)

DIP Switch 3:
ON: 100Base-FX Half-duplex mode
OFF: 100Base-FX Full-duplex mode

DIP Switch 4:
ON: Converter Mode (100TX to 100FX)
OFF: Switching Mode

Mounting
35 mm DIN-rail, according DIN EN 50 022 and wall mount

Power supply
12 - 48 VDC /
connections with screw terminals, redundant ports

Dimensions
30 x 95 x 140 mm (w x d x h)

Operating temperature
-10°C to 60°C

Storage temperature
-40°C to 85°C

Rel. humidity
5% to 95% non condensing

EMI
FCC Class A, CE EN61000-4-2, CE EN61000-4-3, CE EN-61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4

Stability Testing
IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)

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