

## Entry Line

1 port Device Server

1x RS-232/422/485, 2x 10/100Base-TX

1x 100Base-X (optional)

### General

The IP protocol has already left the in-house environment and is going to take all remaining communication areas. Industrial Ethernet already is an established idea, describing the reliable use of Ethernet components in harsh environments.

Because of the large number of these applications the market requires simple and also reliable and cost effective products. With the new Industrial Ethernet Entry Line MICROSENS fulfils these requirements. The products are very compact and include:

- 5 and 8 port Fast Ethernet Switches
- 8 Port Gigabit Ethernet Switch
- Switches with fiber-uplink
- Media Converter for Fast Ethernet and Gigabit Ethernet
- Device Server for the conversion of serial interfaces (RS-232/422/485) to IP.

All new devices distinguish themselves with easy handling (Plug&Play) and do not need extensive configuration. New developments are focusing on increasing the port numbers and further implementation of Gigabit Ethernet.



Fig. 1: 1 port Device Server

This Device Server enables the transmission of old legacy equipment with RS-232/422/485 interface via modern IP based networks. One system consist always out of one Device Server and a software installed on a PC where a virtual COM port is installed.

### Features

- RS-232/422/485 to Ethernet (IP)
- Windows Utility for discovery, configuration and monitoring
- Max. data rate up to 460.8 Kbps
- Virtual COM, TCP Server, TCP Client connections

## Technical Specifications

<b>Type</b>	RS-232/422/485 Device Server for industrial use
<b>Fiber type</b>	Multimode 62.5/125 ~ 50/125um (optional), Single Mode 9/125um, duplex (optional)
<b>Cable type serial</b>	Twisted Pair cable, SUB-D9 (male)
<b>Cable type Ethernet</b>	Shielded Twisted Pair cable, 100 Ohm, Category 5, RJ-45
<b>Data rate</b>	up to 460.8 Kbps
<b>LED displays</b>	<b>PWR 1 / Ready:</b> 1) <b>Red</b> On: Power is on and booting up. <b>Red</b> Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly. 2) <b>Green</b> On: Power is on and functioning normally. <b>Green</b> Blinking: Located by Administrator's Location function. <b>PWR 2 / Ready:</b> 1) <b>Red</b> On: Power is on and booting up. <b>Red</b> Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly. 2) <b>Green</b> On: Power is on and functioning normally. <b>Green</b> Blinking: Located by Administrator's Location function. <b>Eth1 Link / ACT:</b> <b>Orange</b> Blinking: 10 Mbps Ethernet; <b>Green</b> Blinking:100 Mbps Ethernet <b>Eth2 Link / ACT:</b> <b>Orange</b> Blinking:10 Mbps Ethernet; <b>Green</b> Blinking:100 Mbps Ethernet <b>TX / RX:</b> Serial port is receiving data(Orange); Serial port is transmitting data(Green).
<b>Utilities</b>	X-Ware for Windows NT/2000/XP/2003
<b>Management</b>	Web, X-Ware Utilities, SNMP and Telnet
<b>Mounting</b>	35 mm hat rail, according DIN EN 50 022 and wall mount
<b>Power supply</b>	12 - 48 VDC / connections with screw terminals redundant port with DC jack
<b>Dimensions</b>	72 x 32 x 100 mm (w x d x h)
<b>Operating temperature</b>	-10°C to 60°C
<b>Storage temperature</b>	-40°C to 85°C
<b>Rel. humidity</b>	5% to 95% non condensing
<b>EMC</b>	FCC Class A,CE Class A
<b>Safety</b>	UL, cUL,

## Safety Notes

**WARNING:** Infrared radiation as used for data transmission within the fiber optic, although invisible to the human eye, can nevertheless cause damage.

To avoid damage to the eyes:

- never look straight into the output of fiber optic components – danger of blinding!
- cover all unused optical connections with caps.
- commission the transmission link only after completing all connections.

The active laser components used with this product comply with the provisions of **Laser Class 1**.

**DANGER:** Conductive components of power and telecommunications networks can carry dangerously high voltage.

To avoid electric shock:

- Do not carry out installation or maintenance work during lightning storms.
- All electric installations must be carried out in accordance with local regulations.

## Order Information

Art.-No.	Description	Connectors
MS655400	Industrial Ethernet Device Server, Entry Line, 1x RS-232/422/485 to 2x 10/100Base-TX	1x SUB-D9 2x RJ-45
MS655401	Industrial Ethernet Device Server, Entry Line, 1x RS-232/422/485 to 1x 100Base-FX Multimode 1310nm SC	1x SUB-D9 1x SC duplex

## Accessories

Art.-No.	Description	Connectors
MS700420	Hat-rail power supply 24 Watt 24 V / 1,0 A, wide range input 85-264 VAC	In: 3-pin Out: 2-pin
MS700421	Hat-rail power supply 60 Watt 24 V / 2,5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin
MS700422	Hat-rail power supply 120 Watt 24 V / 5 A, wide range input 85-264 VAC	In: 3-pin Out: 5-pin
MS700434	DC/DC hat-rail power supply 24 Watt 24 V / 1,0 A, wide range input 18-75 V DC	In: 3-pin Out: 2-pin

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