

## Product Overview

### 5 / 8 Port Gigabit Ethernet Industrial Switches Entry Line



## Description

The new Gigabit Ethernet industrial switch offers the full Gigabit performance on all ports. This offers, beside the central uplink, also the high speed connection of Gigabit end devices.

The new industrial switch belongs to the "Entry Line" family and has depending on the version up to eight RJ-45 ports and two SFP slots, which can be used alternatively to two RJ-45 ports (dual media). For the SFP slots MICROSENS offers a wide range of transceivers, which allow a flexible and cost effective fiber connection for multimode and single mode networks.

The devices of the MICROSENS "Entry Line" enable a simple network setup in a Plug&Play manner. Therefore many end users decide to change from field bus based automation to modern Ethernet based technology. Furthermore this migration gives significant cost savings for investment and operation of the network.

In principle Gigabit Ethernet is ideal to provide the required bandwidth and to transmit real time data for automation in shortest time. Reason beside the high bandwidth is that the latency time for forwarding the data packets is much lower.

## Properties

- Gigabit Performance for Industrial Ethernet
- Easy handling (Plug&Play)
- Connection of redundant power supply possible
- Cost effective and compact design
- Optional with SFP-Slots for fiber uplinks
- Monitoring with potential free contact

# Specifications

## General

<b>Type</b>	Gigabit Ethernet Switch, IEEE 802.3 compliant
<b>Performance</b>	Store-and-forward Switching Architecture
<b>MAC-Addresses</b>	8K MAC address table
<b>Jumbo Frames</b>	9Kbytes
<b>Management</b>	unmanaged

## Uplink (Pluggable Transceiver)

<b>Number of Ports</b>	1 (MS655201) 2 (MS655210)
<b>Type</b>	Gigabit Ethernet 1000Base-X
<b>Connector</b>	SFP slot
<b>Flow Control</b>	IEEE802.3x Flow Control and Back Pressure

## Power Supply (DC)

<b>Input Voltage</b>	DC 12..48V redundant
<b>Power Consumption</b>	4,6 W
<b>Connector</b>	Screw terminal, 2 pin, V+/V-

## Mechanical

<b>Dimensions</b>	30 mm x 95 mm x 140 mm (w x d x h)
<b>Housing Color</b>	dark grey
<b>Mounting</b>	DIN rail, wall

## Local Ports (Twisted-Pair)

<b>Number of Ports</b>	4 (MS655201) 5 (MS655200) 8 (MS655208, MS655210)
<b>Type</b>	Gigabit Ethernet, triple speed 10/100/1000Base-T
<b>Connector</b>	RJ-45 jack, shielded
<b>Cable Type</b>	Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m
<b>Flow Control</b>	IEEE802.3x Flow Control and Back Pressure

## Display

<b>Type</b>	13 LEDs, color coded
<b>Power</b>	Green on/off
<b>Link</b>	Local ports: blinking: activity green (upper LED): connected to network with 100 Mbps green (lower LED): connected to network with 1000 Mbps"

## Environment

<b>Operating Temperature</b>	-10..60 °C -40..75°C (X-models only)
<b>Storage Temperature</b>	-40 to 85 °C
<b>Relative Humidity</b>	5 to 95%, non condensing

## Standards Compliance

<b>CE Mark</b>	CE EN61000-4-2 (ESD) CE EN61000-4-3 (RS) CE EN-61000-4-4 (EFT) CE EN61000-4-5 (Surge) CE EN61000-4-6 (CS) CE EN61000-4-8 CE EN61000-4-11 CE EN61000-4-12 CE EN61000-6-2 CE EN61000-6-4
<b>Safety</b>	CE/EN60950-1

<b>IEEE (Ethernet)</b>	IEEE 802.3 10Base-T
	IEEE 802.3u 100Base-TX
	IEEE 802.3ab 1000Base-T
	IEEE802.3x Flow Control and Back Pressure
<b>Other</b>	IEC60068-2-32 (Free fall)
	IEC60068-2-27 (Shock)
	IEC60068-2-6 (Vibration)

## Order Information

Description	Article Number
5 Port Industrial Gigabit Ethernet Switch, 5x 10/100/1000Base-T	<b>MS657200X</b>
Industrial Gigabit Ethernet Switch, 4x 10/100/1000T, 1x 10/100/1000Base-T or 1000X SFP Combo port, 1x 1000X SFP Slot	<b>MS657203X</b>
Industrial Gigabit Ethernet Switch, 8x 10/100/1000Base-T	<b>MS657208X</b>
8 Port Industrial Gigabit Ethernet Switch, Entry Line, 6x 10/100/1000Base-T, 2x 10/100/1000Base-T or 2x SFP-Slots 1000Base-X	<b>MS655210</b>
5 Port Industrial Gigabit Ethernet Switch, 5x 10/100/1000Base-T Alternative Article Number: <a href="#">MS657200X</a>	<b>MS655200X</b> <b>End of Life</b>
5 Port Industrial Gigabit Ethernet Switch, 4x 10/100/1000Base-T, 1x SFP-Slot 1000Base-X Alternative Article Number: <a href="#">MS657203X</a>	<b>MS655201X</b> <b>End of Life</b>
Industrial Gigabit Ethernet Switch, Entry Line, 8x 10/100/1000Base-T Alternative Article Number: <a href="#">MS657208X</a>	<b>MS655208X</b> <b>End of Life</b>

## Accessories

Description	Article Number
Hat-rail power supply 24 Watt 24 V / 1,0 A, wide range input 85-264 VAC, 85..375 VDC	<b>MS700420</b>
Hat-rail power supply 60 Watt 24 V / 2,5 A, wide range input 85-264 VAC, 85..375 VDC	<b>MS700421</b>
Hat-rail power supply 120 Watt 24 V / 5,0 A, wide range input 85-264 VAC, 85..375 VDC	<b>MS700422</b>
End clamp for DIN rail 35mm, 2 screws, width: 10 mm, color: aluminium	<b>MS140806</b>

This document in whole or in part may not be duplicated, reproduced, stored or retransmitted without prior written permission of MICROSENS GmbH & Co. KG. All information in this document is provided 'as is' and subject to change without notice. MICROSENS GmbH & Co. KG disclaims any liability for the correctness, completeness or quality of the information provided, fitness for a particular purpose or consecutive damage. MICROSENS is a trademark of MICROSENS GmbH & Co. KG. Any product names mentioned herein may be trademarks and/or registered trademarks of their respective companies.

© 2017.04.24 MICROSENS GmbH & Co. KG - 59067 Hamm/Germany - Tel. +49 2381 9452-0 - [www.microsens.com](http://www.microsens.com)