

Product Overview

Fast Ethernet Industrial Switches Entry Line



Description

The Entry Line series comprises a number of compact Fast Ethernet switches. The basic devices have 5x or 8x RJ-45 copper ports. Extended switch versions are equipped with additional fiber optic ports. For example, in addition to the 4x 10/100Base-TX ports in the 5 port version, a fiber optic port is available in the multimode or single mode version. The 6 port Fast Ethernet switch also has two fiber optic ports and can therefore be used for cascading.

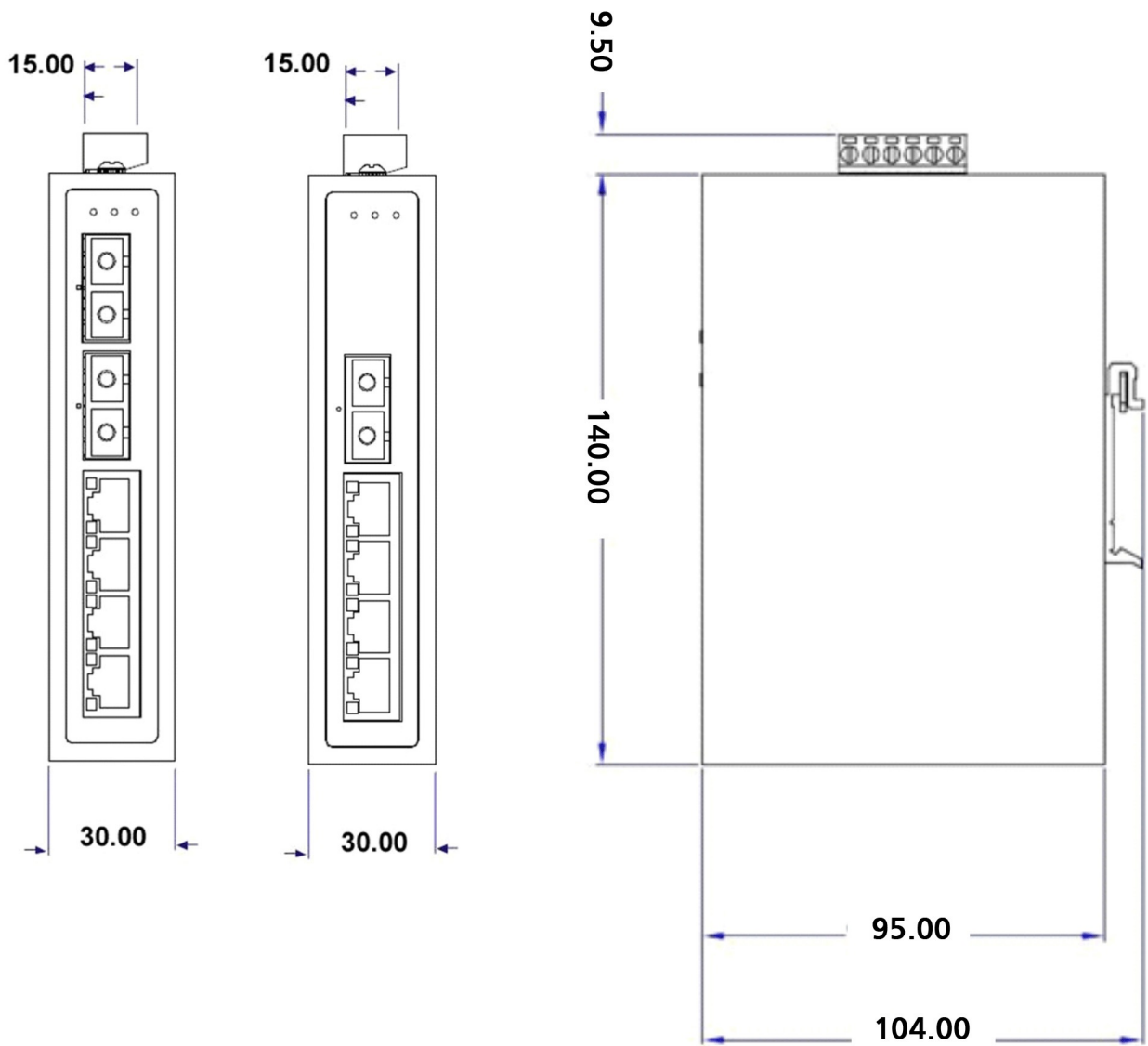
The devices can be operated immediately and require no configuration. Ports are set automatically by Auto-Negotiation (10/100/1000Base-T) and Auto MDI/MDI-X.

The power supply ports are designed redundantly. An isolated alarm contact reports a possible fault in the power supply of the device.

Properties

- Easy configuration, no extensive configuration
- 5x or 8x 10/100TX ports
- Version with fiber port for multimode and single mode
- 12 to 56 VDC power, redundant input
- Potential free contact indicates power loss
- Effective overvoltage protection

Dimensions



Specifications

General

Type	Fast Ethernet Switch Layer 2, IEEE 802.3 compliant
Performance	store-and-forward switching
MAC-Addresses	2K MAC Address Table

Uplink (Fixed Optical Transceiver)

Number of Ports	1 (MS655102X and MS655104X) 2 (MS655122X and MS655124X)
Type	Fast Ethernet Multimode: 100Base-FX Single Mode: 100Base-FX
Connector	SC duplex
Fiber Cable Type	Multimode: 50 or 62.5/125 µm fiber Single Mode: 9/125 µm fiber
Distance	Multimode 62,5/125µm or 50/125µm, distance: 2 km Single Mode 9/125µm, duplex, distance: 30km Single Mode 9/125µm, duplex, distance: 40km

Power Supply (DC)

Input Voltage	2x 12..48 VDC (redundant ports)
Power Consumption	4.4 W
Connector	screw terminals

Mechanical

Dimensions	30 mm x 95 mm x 140 mm (w x d x h)
Weight	485g
Mounting	DIN35 rail, Wall

Reliability

MTBF	400.000h
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Local Ports (Twisted-Pair)

Number of Ports	4 8 (MS655140X only)
Type	Fast Ethernet, dual Speed, 10/100Base-TX
Connector	RJ-45 jack, shielded
Cable Type	Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m
Flow Control	IEEE802.3x compliant
Pinout	Auto MDI/MDI-X, auto polarity

Display

Power	Power1 (green), Power2 (green), Fault (red)
Link	Local ports 1 to 4 Link/Activity (Green), Full duplex/Collision (yellow)

Environment

Operating Temperature	-10°C..60°C -40°C..+75°C (X-Version)
Storage Temperature	-40°C..85°C
Relative Humidity	5%..95% non condensing

Standards Compliance

CE Mark	EN6 1000-4-2, EN6 1000-4-3 EN-6 1000-4-4, EN6 1000-4-5 EN6 1000-4-6, EN6 1000-4-8 EN6 1000-4-11, EN6 1000-4-12 EN6 1000-6-2, EN6 1000-6-4
Safety	EN60950-1, IEC60068-2-32 IEC60068-2-27, IEC60068-2-6
IEEE (Ethernet)	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure

Order Information

Description	Article Number
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Twisted Pair Switches

Fast Ethernet Industrial Switch, 5x 10/100Base-TX	MS657100X
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Fast Ethernet Industrial Switch, 8x 10/100Base-TX	MS657140X
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Fast Ethernet Industrial Switch, 5x 10/100Base-TX Alternative Article Number: MS657100X	MS655100X End of Life
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Fast Ethernet Industrial Switch, 8x 10/100Base-TX Alternative Article Number: MS657140X	MS655140X End of Life
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Switches with 1x Fiber-Uplink

Fast Ethernet Industrial Switch, 4x 10/100Base-TX, 1x 100Base-FX Multimode 1310nm SC	MS657102X
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Industrial Fast Ethernet Switch, 4x 10/100Base-TX, 1x 100Base-FX Single Mode 1310nm SC	MS657104X
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Switches with 2x Fiber-Uplink

Fast Ethernet Industrial Switch, Entry Line, 4x 10/100Base-TX, 2x 100Base-FX Multimode 1310nm SC, extended temperature range -40..+75°C Alternative Article Number: MS657203X	MS655122X End of Life
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Fast Ethernet Industrial Switch, Entry Line, 4x 10/100Base-TX, 2x 100Base-FX Single Mode 1310nm SC, extended temperature range -40..+75°C Alternative Article Number: MS657203X	MS655124X End of Life
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