

Product Overview

Fast Ethernet Switches with Power-over-Ethernet



Description

Selected Fast Ethernet switches are available with integrated Power-over-Ethernet functionality. Four 10/100Base-TX ports facilitate the direct supply of terminal devices via the data connection in accordance with IEEE 802.3af/at with an output of up to 30 W per port.

In the copper version the device has a fifth 10/100Base-TX uplink port. Other versions are provided with a fiber optic port in the multimode or single mode version.

Generally the power supply to devices is 48..56 VDC. The ports are designed redundantly. Dedicated LED displays provide information on the power supply status up to the PoE functionality for each port.

The devices can be operated immediately and require no configuration. Connectors are set automatically by Auto-Negotiation (10/100/100Base-TX) and Auto MDI/MDI-X as well as in accordance with the PoE standard IEEE 802.3af/at.

Properties

- Easy configuration, no extensive configuration
- four 10/100TX ports with PoE+
- according to IEEE802.3af/at up to 30W per port
- Version with fiber port for multimode and single mode
- 48..56 VDC power input, redundant
- Potential free contact indicates power loss
- Effective overvoltage protection

Specifications

General

Fast Ethernet Switch Layer 2, **Type**

IEEE 802.3 compliant

Performance store-and-forward switching

MAC-Adresses 2K MAC Address Table

Uplink (Fixed Optical Transceiver)

Number of Ports 1 (MS655102PX-48 and

MS655104PX-48)

Type Fast Ethernet

Multimode: 100Base-FX

Single Mode: 100Base-F

Connector SC duplex

Fiber Cable Type Multimode:

50 or 62.5/125 μm fiber

Single Mode: 9/125 µm fiber

Distance Multimode 62,5/125um or

> 50/125µm, distance: 2 km Single Mode 9/125µm, duplex, max. Entfernung: 30km Single Mode 9/125µm, duplex,

max. Entfernung: 40km

Power Supply (DC)

Input Voltage 2x48 VDC (redundant ports)

Power 3.5W (without PoE), 57W (Full

load PoE) Consumption

Connector screw terminals

Mechanical

Dimensions 30 mm x 95 mm x 140 mm (w

x d x h

Weight 485g

DIN35 rail, Wall Mounting

Reliability

MTBF 400.000h Local Ports (Twisted-Pair)

Number of Ports 4

5 (MS655100PX-48 only)

Fast Ethernet, dual Speed, **Type**

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

Power-over-**Ethernet**

Power Sourcing Equipment (PSE) IEEE 802.3af class 0, max. 15.4 W, forced-mode (legacy-devices), pinout wires

1/2 (+), 3/6 (-)

Display

Power Power1 (green), Power2

(green), Fault (red)

PoE: Feeding Power (green)

Link Per port: Link/Activity (green),

Full duplex/Collision (yellow)

Environment

Operating -10°C..60°C

Temperature -40°C..+75°C (X-Version)

Storage -40°C..85°C

Temperature

Relative 5%..95% non condensing

Humidity

Standards Compliance

CE Mark EN61000-4-2, EN61000-4-3

> EN-61000-4-4, EN61000-4-5 EN61000-4-6, EN61000-4-8 EN61000-4-11, EN61000-4-12 EN61000-6-2, EN61000-6-4

Safety EN60950-1

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 |
|--|------------------------------|
| 5 Port Fast Ethernet PoE-Switch, 4x 10/100TX with PoE+ (30W), 1x 10/100TX Uplink, 4856 VDC power supply input | MS657100PX |
| 5 Port Fast Ethernet Switch 4x 10/100TX with PoE+ (30W), 1x 100FX Multimode 1310 nm SC duplex 2 km, 4856 VDC power supply input | MS657102PX |
| 5 Port Fast Ethernet Switch 4x 10/100TX with PoE+ (30W), 1x 100FX Single Mode 1310 nm SC duplex 30 km, 4856 VDC power supply input | MS657104PX |
| 5 Port Fast Ethernet PoE-Switch, $4x$ 10/100TX with PoE, $1x$ 10/100TX Uplink, 48 VDC power supply, extended temperature range - $40+75$ °C Alternative Article Number: MS657100PX | MS655100PX-48 End of Life |
| 5 Port Fast Ethernet Switch 4x 10/100TX with PoE (15,4W), 1x 100FX Multimode 1310 nm SC duplex 2 km, 48 VDC power supply input Alternative Article Number: MS657102PX | MS655102PX-48 End of Life |
| 5 Port Fast Ethernet Switch 4x 10/100TX with PoE (15,4W), 1x 100FX, Single Mode 1310 nm SC duplex 30 km, 48 VDC power supply input Alternative Article Number: MS657104PX | MS655104PX-48 End of Life |

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