

Product Overview

Fast Ethernet Desktop Switches with Management PoE (opt.)



Description

This Fast Ethernet Desktop switch enables connection of up to five end devices via twisted pair cables (10/100Base-TX). An additional fiber optic port enables direct connection to a fiber optic segment according to 100Base-FX. Network management functions are a permanent part of the equipment. In addition to the configuration of VLANs, data prioritisation (QoS) or the power management for PoE, the device can also be monitored. Access is made via normal standards such as Web, Telnet or SNMP. The switch is also supported by the NMP software. The special feature of this equipment is that it is optionally available with an integrated Power-over-Ethernet function. While four of the five RJ-45 ports enable supply of PoE end equipment according to IEEE 802.3af (PSE – Power Source Equipment), the switch itself can be supplied with Power-over-Ethernet via the fifth port (PD – Powered Device). Therefore an additional power supply for the switch is not necessary. The PoE version can be equipped with an external as well as with an internal power supply unit.

Properties

- Fast Ethernet Mini-Switch with an integrated network management
- Optional Power-over-Ethernet according to IEEE 802.3af on four TP-ports
- Alternative power supply via PoE on the fifth TP-port (PoE-version)
- PoE-versions with external or internal power supply available
- Use in NMP Network Management

Specifications

General

Type	Fast Ethernet Ethernet Switch Layer 2+, IEEE 802.3 compliant
Performance	Layer 2 non-blocking switching, store-and-forward,
MAC-Addresses	2,048 addresses, automatic learning and aging
VLANs	Priorisation IEEE 802.1p VLAN IDs 0..4095
Quality of Service	4 hardware-queues per port prioritisation according to: * IPv4 * VLAN priority IEEE 802.1p * port queue weighting strict or weighted, configurable
Management	CLI: telnet Web: http SNMPv1, SNMPv2c Microsens NMP-Software

Uplink (Fixed Optical Transceiver)

Number of Ports	1 (MS45381PM..MS45385PM) 2 (MS453091PM..MS453095PM)
Type	Fast Ethernet Multimode: 100Base-FX Single Mode: 100Base-FX
Connector	ST or SC duplex
Fiber Cable Type	Multimode: 50 or 62.5/125 µm fiber Single Mode: 9/125 µm fiber
Distance	Multimode: 2 km Single Mode: 15 km, 40 km actual distance may depend on fiber performance
Output Optical Power	Multimode 850nm: -19 dBm Single Mode 1310nm 15 km: -15 dBm Single Mode 1310nm 40 km: -5 dBm
Receiver Sensitivity	Multimode 850nm: -31 dBm Single Mode 1310nm 15 km: -31 dBm Single Mode 1310nm 40 km: -34 dBm

Local Ports (Twisted-Pair)

Number of Ports	5
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
Pinout	Auto MDI/MDI-X, auto polarity
Power-over-Ethernet	Port 1..4 (PM-Series, only) IEEE 802.3at class 0, max. 15.4 W, forced-mode (legacy-devices) Port 1 always stays active for emergency operation (emergency call-phone)

Downlink (Twisted-Pair)

Number of Ports	1 (MS453080)
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
Pinout	Auto MDI/MDI-X, auto polarity

Display

Power	Local ports 1 to 4: green: PoE sourcing
Link	Local ports 1 to 4: blinking: activity green: authorized/forwarding orange: blocked
Status	Switch Status (S) green: device ready Link status uplink (5) blinking: activity green: link
Full Duplex	green: fullduplex off: halfduplex

Environment

Operating Temperature	0..50 °C
Storage Temperature	-20..85 °C
Relative Humidity	5..80%, non condensing

Standards Compliance

CE Mark	2004/108/EC (EMC) 2006/95/EG (Low Voltage)
Safety	EN 60950-1:2006
Electromagnetic Emission	EN 55022:2006
Electromagnetic Immunity	EN 55024:1998
IEEE (Ethernet)	802.3i 10Base-T 802.3u 100Base-T 802.3x Flow Control 802.3ac VLAN Tagging 802.3af Power-over-Ethernet (Port 1..4) 802.1Q Tagged VLANs 802.1p Packet Prioritisation

Power Supply (AC)

Input Voltage	110 -230 V AC internal or external power-supply (pl. see article-no.)
Power Consumption	max. 60W

Mechanical

Dimensions	212 mm x 35 mm x 112 mm (w x h x d)
Housing Color	black
Mounting	optional: wall oder DIN-rail

Order Information

Description Article Number

Standardversion with external power-supply

5 Port Desktop Switch 5x10/100Base-TX, SNMP/Web/CLI Management, VLAN, QoS, ext. power supply **MS45308 0M**

6 Port Desktop Switch
5x 10/100Base-TX, 1x 100Base-FX
Multimode 1310nm ST, SNMP/Web/CLI Management, VLAN, QoS, ext. power supply **MS45308 1M**

6 Port Desktop Switch 5 x 10/100Base-TX, 1 x 100Base-FX Multimode 1310nm SC, SNMP/Web/CLI Management, VLAN, QoS, ext. power supply **MS45308 2M**

6 Port Desktop Switch
5 x 10/100Base-TX, 1 x 100Base-FX
Single mode 1310nm SC, 15 km, SNMP/Web/CLI Management, VLAN, QoS, ext. power supply **MS45308 3M**

6 Port Desktop Switch
5 x 10/100Base-TX, 1 x 100Base-FX
Single mode 1310nm ST, 15 km, SNMP/Web/CLI Management, VLAN, QoS, ext. power supply **MS45308 4M**

PoE-Version with internal power-supply

5 Port Desktop PoE-Switch
5x 10/100Base-TX, PoE on 4 TX-Ports, SNMP/Web/CLI Management, VLAN, QoS **MS45308 0PM**

6 Port Desktop PoE-Switch
5x 10/100Base-TX, PoE on 4 TX-Ports, 1x 100Base-FX Multimode 1310nm ST, SNMP/Web/CLI Management, VLAN, QoS **MS45308 1PM**

6 Port Desktop PoE-Switch
5x 10/100Base-TX, PoE on 4 TX-Ports, 1x 100Base-FX Multimode 1310nm SC, SNMP/Web/CLI Management, VLAN, QoS **MS45308 2PM**

6 Port Desktop PoE-Switch
5x 10/100Base-TX, PoE on 4 TX-Ports, 1x 100Base-FX Single mode 1310nm SC, SNMP/Web/CLI Management, VLAN, QoS **MS45308 3PM**

6 Port Desktop PoE-Switch
5x 10/100Base-TX, PoE auf 4 TX-Ports, 1x 100Base-FX Single mode 1310nm ST, SNMP/Web/CLI Management, VLAN, QoS **MS45308 4PM**

PoE-Version with external power-supply

5 Port Desktop PoE-Switch 5x 10/100Base-TX, SNMP/Web/CLI Management, VLAN, QoS, PoE on 4 TX Ports **MS45308 0PM-48**

6 Port Desktop PoE-Switch 5x 10/100Base-TX, 1x 100Base-FX Multimode 1310nm ST, SNMP/Web/CLI Management, VLAN, QoS, PoE on 4 TX Ports **MS45308 1PM-48**

6 Port Desktop PoE-Switch 5x 10/100Base-TX, 1x 100Base-FX Multimode 1310nm SC, SNMP/Web/CLI Management, VLAN, QoS, PoE on 4 TX ports, 48V **MS45308 2PM-48**

6 Port Desktop PoE Switch 5 x 10/100Base-TX, 1 x 100Base-FX Single mode 1310nm SC, **MS45308 3PM-48**

SNMP/Web/CLI Management, VLAN, QoS, PoE on 4 TX ports, 48V

6 Port Desktop PoE-Switch 5x 10/100Base-TX, 1x 100Base-FX Single mode 1310nm ST, **MS453084PM-48**
SNMP/Web/CLI Management, VLAN, QoS, PoE on 4 TX Ports

External power supply 48 VDC/1.25 A 65 W, output (48VDC): screwable connector, input **MS700675B-2**
(230VAC)

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