

Gigabit Ethernet SFP-Switch 24 Ports (10/100/1000Base-TX and Dual Speed SFP)

MICROSENS

Uplink 2 Ports (10/100/1000T and GBE SFP) Manageable

Features

- Gigabit Ethernet SFP 19" switch, L2, Store and forward
- 24 port Copper (10/100/1000Base-TX) and Dual speed SFP slots (100Base-FX/1000Base-X)
- Uplink 2 x 10/100/1000T RJ-45 or SFP
- Spanning Tree and Rapid Spanning Tree
- Manageable: SNMP/Telnet/CLI/Web management
- Port Based VLAN /802.1Q VLAN, SNMP Traps, Class of Service
- IGMP v1, v2, IEEE 802.1x user authentication
- Modular, redundant power supply

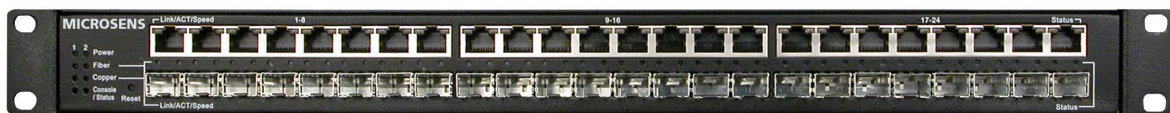


Fig. 1: Access Switch Gigabit Ethernet front side



Fig. 2: Access Switch Gigabit Ethernet backside

Advantages

System Interface /Performance

- 24x Dual speed SFP slots (100Base-FX/1000Base-X)
- 2x 1000Base-X SFP slots
- 24x 10/100/1000Base-T ports
 - Auto-Negotiation
 - Auto-Crossover
- 2x 1000Base-T ports
 - Auto-Crossover
- 1x Reset Button
- 1x Swappable Fan
- RJ-45 port supports Auto MDI/MDI-X function
- 8K MAC Addresses Table

Power supply

- Input AC: 100~240 VAC, 50 /60Hz, 0.9 A (maximum)
- Input DC: 48 VDC /1.45 A Power
- Consumption 70 Watts (maximum)

Temperature

- Operating : 0° to 50° C
- Storage Temperature: -20° to +60°C
- Operating Humidity: 5% to 95% non-condensing

EMI Certification

- CE Mark
- FCC Class A

Description

The 24 Port Gigabit Ethernet Switch is designed for application in fiber optic-based networks (FTTO and FTTD), where great number of fiber optic ports are required on the central side.

Each of 24 Gigabit Ethernet ports located on the front of the device is configured as a combined RJ-45 (10/100/1000Base-T) or SFP port (100/1000Base-X). In this way, the switch is accorded a high degree of flexibility especially that the Dual Speed SFP ports support the Fast Ethernet as well as the Gigabit Ethernet SFP Transceiver.

At the rear of the switch there are two uplink ports which can be selectively used as RJ-45 (10/100/1000Base-T) or SFP (100/1000Base-X) ports.

The switch is equipped with integrated network management and supports all management standards from web browser via Telnet up to SNMP. Moreover the switches have all common security features like QoS, VLANs, STP/RSTP, IGMP Snooping, Link Aggregation up to Authentication according to IEEE Std. 802.1X.

Power supply of the switch has a modular layout. There are modules for 90 to 240 VAC and 48 VDC. Two power supply modules can be used in parallel (redundant) whereby the options for AC and DC are freely selectable and combinable.

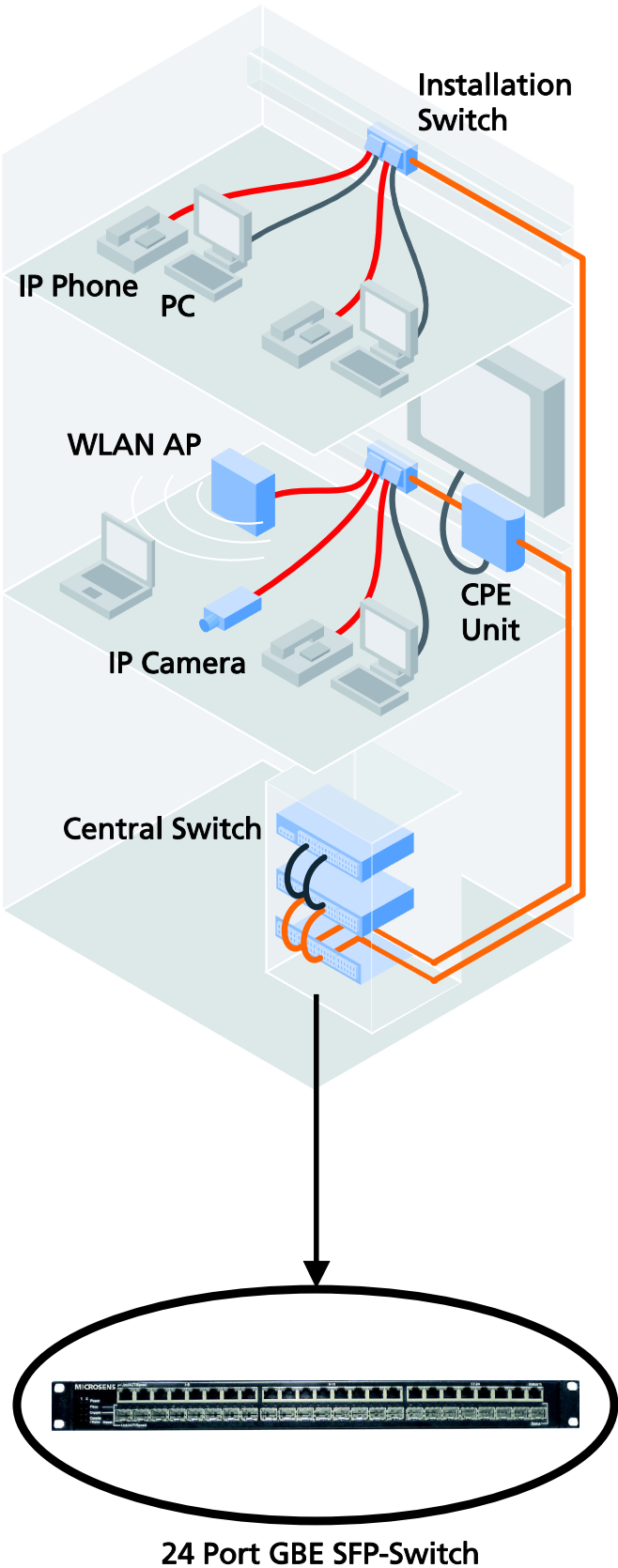
Ideally, this switch can be used in combination with the MICROSENS 45x45 FTTO Switches in FTTO application and with the MICROSENS FTTH CPE unit. It is also designed for Metro applications.

Compatibility with standards

IEEE Standards

- IEEE 802.3 10Base-T IEEE 802.3u 100Base-TX/FX
- IEEE 802.3ab 1000Base-T
- IEEE 802.3z 1000Base-X IEEE 802.3ad Link Aggregation
- IEEE 802.3ah OAM
- IEEE 802.1ag CFM
- IEEE 802.1w Rapid Spanning Tree IEEE 802.1p Priority IEEE 802.1q Tag VLAN
- IEEE 802.1X Port Based Network Access Control

Application



Ordering information

Art. No.	Description	Connectors
MS400870M-1A	24 Port Gigabit Ethernet Switch with 2x Gigabit uplink, 10/100/1000Base-T RJ-45 or 100/1000Base-X SFP-Slot, SNMP/Web/Telnet-Management, incl. 1x 90-240 VAC power supply	Front: 24x RJ-45, 24x SFP slot Back: 2x RJ-45, 2x SFP slot Power Supply: According to version
MS400870M-2A	How on top, nevertheless, with 90 - 240 VAC power supply module for 24 Port Gigabit Ethernet Switch MS400875	
MS400870M-1D	How on top, nevertheless, with 48 VDC power supply module for 24 Port Gigabit Ethernet Switch MS400876	
MS400870M-2D	How on top, nevertheless, with 2x 48 VDC power supplies	

SFP

There are SFPs for various applications. Below are shown two typical SFPs of the series MS1002xx.

Art. Nr.	Description	Connectors
MS100200*	SFP, Gigabit Ethernet / Fibre Channel 850 nm Multimode, max. 1.25 Gbps	LC duplex
MS100210*	SFP, Gigabit Ethernet / Fibre Channel 1310 nm Single Mode, max. 1.25 Gbps, 10 km	LC duplex

*) Option "D" for Diagnostic function (ex. MS100200D)

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