Modular 24-Port Fast Ethernet Switch for FTTO/FTTH Applications

- **24-Port Fast Ethernet + 2x Gigabit Ethernet uplink**
- **Modular slots for fiber or copper ports**
- **High performance 8.8 Gbps capacity**
- **SNMP/RMON1/Telnet/CLI/ Web management**
- **QoS, VLAN, IGMP, Rapid Spanning tree etc.**
- **Redundant Power Supply option**

This modular 24-Port Fast Ethernet layer 2+ switch is a high performance device mainly for Fiber To The Office (FTTO) and Fiber To The Home (FTTH) applications.

The switch has three modular slots on the front which can be equipped with 8 port switching modules. These modules are available with 10/100-Base-TX copper interfaces or with fiber optic ports. The fiber ports can be chosen as multi-mode, single mode or single mode simplex interfaces.

It is also possible to combine different modules in one chassis. On the rear, the switch has 2 high bandwidth Gigabit Ethernet ports for the central uplink. Each port can be used alternatively with the 10/100/1000Base-T or via the SFP slot as a fiber optic interface.
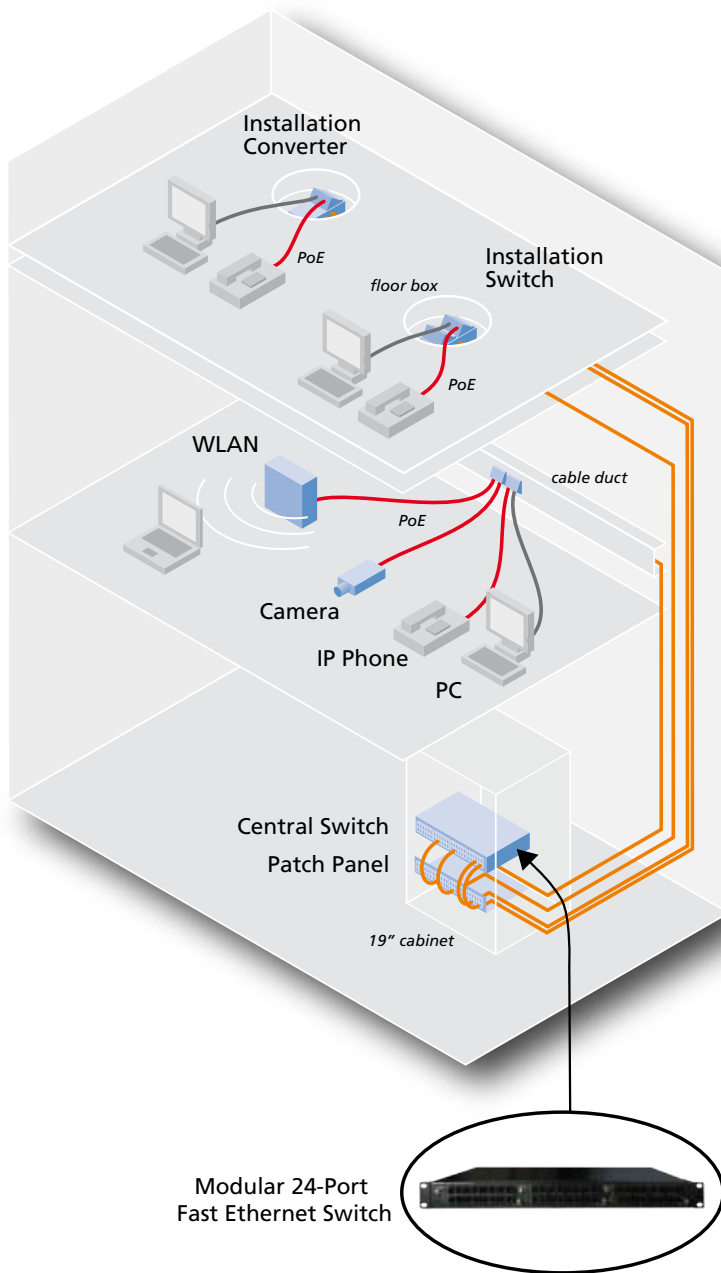
All existing state-of-the-art mechanisms are integrated into this switch. The Quality of Service (QoS) functionality allows the prioritisation of the data for time critical applications such as Voice over IP (VoIP). The VLAN functionality offers the possibility to define virtual LANs within the physical network. Spanning tree and Rapid Spanning tree make it possible to have the network connection protected. The main power supply for 100 – 240 V AC is integrated into the switch. The backup is a 12 – 48 V DC power supply.

With the integrated network management it is possible to monitor and configure the switch remotely. Access to the management can be realised by SNMP, RMON1, Telnet, CLI or web based. Using the integrated SMTP function, events can be set to send an email notification.

Ideally, this switch can be used in combination with the MICROSENS 45x45 FTTO Switches in FTTO application and with the MICTOSENS FTTH CPE unit.

Modular 24-Port Fast Ethernet Switch for FTTO/FTTH Applications

Installation Converter

Installation Switch

floor box

PoE

PoE

WLAN

cable duct

PoE

Camera

IP Phone

PC

Central Switch
Patch Panel

19" cabinet

Modular 24-Port
Fast Ethernet Switch

Typical FTTO application

Ordering Information

Art.-No.	Description
MS400820M	24 Port Fast Ethernet L2+ Access Switch Chassis, 3 Module Slots, 2x10/100/1000T or SFP Uplink, manageable, 19" 1U
MS400822	8x 10/100Base-TX Module for MS400810M/20M Access Switches
MS400823	8x 100FX Multimode 1310nm SC Module for MS400810M/20M Access Switches
MS400824	8x 100FX Single Mode 1310nm 30 km SC Module for MS400810M/20M Access Switches
MS400824A	8x 100FX Single Mode WDM Tx: 1310nm Rx:1550nm SC simplex Module for MS400810M/20M Access Switches
MS400824B	8x 100FX Single Mode WDM Tx: 1550nm Rx:1310nm SC simplex Module for MS400810M/20M Access Switches

Further products on request.
MICROSENS reserves the right to make any changes without further notice to any product to improve reliability, function or design. MICROSENS does not assume any liability arising out of the application or use of any product.
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Technical Specifications

Type
Modular 24-Port Fast Ethernet manageable Layer 2+ switch, store and forward architecture for FTTO/FTTH applications

Standard
IEEE802.3 10BASE-T
IEEE802.3u 100BASE-TX/100BASE-FX
IEEE802.3z Gigabit SX/LX
IEE802.3ab Gigabit 1000T
IEEE802.3x Flow Control and Back pressure
IEEE802.3ad Port trunk with LACP
IEEE802.1d Spanning tree protocol
IEEE802.1w Rapid Spanning tree protocol
IEEE802.1p Class of service
IEEE802.1q VLAN Tagging
IEEE802.1x User authentication
IEEE802.1ab LLDP**

Interfaces/Slots
3x slots for 8 port switching modules
RS-232 console: Female DB-9
2 Gigabit Copper + 2 SFP dual media

LEDs
System Power (Green)

8 10/100TX module: Link/Activity (Green), Full duplex/collision (Yellow)

8 100Base-FX module: Link (Green)/ Activity (Green Blinking)

Gigabit Copper: Link/Activity (Green), 1000 Mbps (Green), 100 Mbps (Green), Full duplex/collision (Yellow)

SFP: Link/Activity (Green), 1000 Mbps (Green)

Features
SNMP v1 v2c, v3 / Web / Telnet / CLI / RMON1 Management
SNMP Traps for several events
Support IEEE802.3x Flow control
IEEE802.1d spanning Tree, IEEE802.1w Rapid Spanning tree protocol
Up to 4094 VLANs, IEEE802.1Q Tag VLAN
GVRP up to 256 groups
Quality of Service Port based, Tag based, IPv4 Type of service, IPv4 Different service.
IGMP V1 and V2 snooping
Port Security, Port Mirror, Bandwidth Control
Access Control List, Access Security 802.1x Authentication
DHCP, DNS, System Log, SNTP, SMTP Packet filter
LLDP**

Power Supply
100 – 240 V AC, 50/60 Hz, backup 12 – 48 V DC
Max. 50 W consumption

Temperatures
Operating: 0°C to 45°C, 5%~95% RH
Storage: -40°C to 70°C, 5%~95% RH

Dimensions
440 x 280 x 44 mm (w x d x h)

EMI & Safety
FCC Class A, CE, CE/EN60950-1

** Optional

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