

Fast Ethernet Access Switch

max. 24 x 10/100Base-TX
uplink 2x10/100/1000T or SFP
Manageable

MICROSENS

Features

- Fast Ethernet modular 19" Switch, L2, Store and forward
- 8 port 10/100TX Module, 8 port 100-FX Module, multimode or single mode with SC
- 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



Fig. 1: Access Switch Fast Ethernet front side



Fig. 2: Access Switch Fast Ethernet backside

Advantages

System Interface /Performance

- RJ-45 port supports Auto MDI/MDI-X function
- Buffer : 4Mbits packets
- 8K MAC Addresses Table

Power supply

- 100~240VAC, 50 /60Hz, 0.8A (maximum)
- Redundant (DC 12~48V)
- Consumption 50 watts (maximum)

Temperature

- Operating : 0° ~ 45° C
- Storage : -40° ~ +70°C

Security

- CE/EN60950-1
- FCC Class A, CE

Description

The 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.

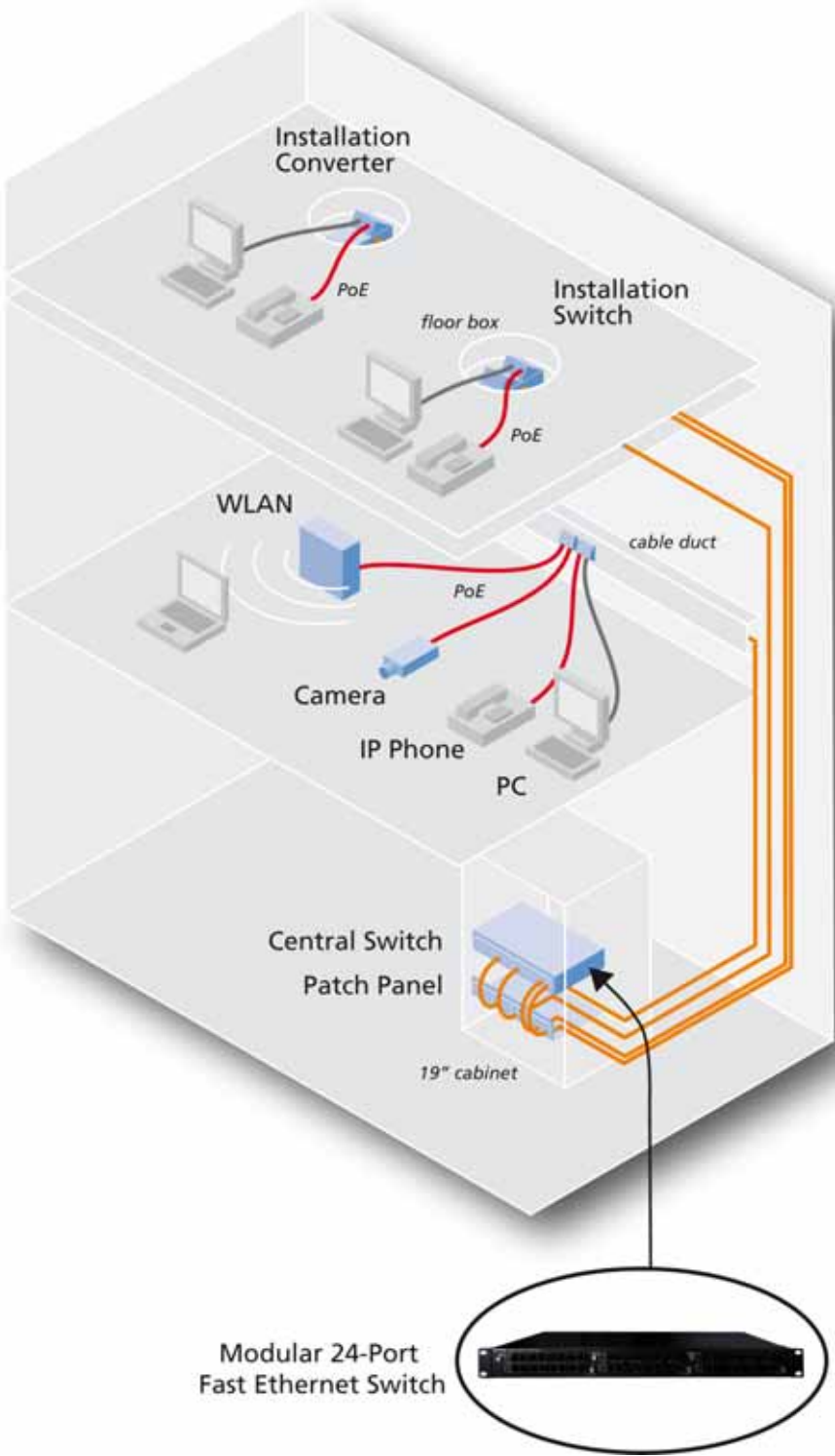
Ideally, this switch can be used in combination with the MICROSENS 45x45 FTTO Switches in FTTO application and with the MICROSENS FTTH CPE unit.

Compatibility with standards

IEEE Standards

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX/100BASE-FX
- IEEE802.3z Gigabit SX/LX
- IEEE802.3ab Gigabit 1000T
- IEEE802.3x Flow Control and Back pressure
- IEEE802.1d Spanning tree protocol
- IEEE802.1w Rapid Spanning tree protocol
- IEEE802.1p Class of service
- IEEE802.1q VLAN Tagging

Application



Ordering information

Art. Nr.	Description	Connectors
MS400820M	Fast Ethernet Access Switch Chassis, L2, max. 24 ports, 3 Slots for modules-ports, Uplink 2x10/100/1000T or SFP, manageable, 19" 1U	2x RJ-45 2x slot SFP 1x 110V to 230V
MS400822	8x 10/100Base-TX Module for MS400820M	8x RJ-45
MS400823	8x 100FX Module Multimode 1310nm SC	8x SC duplex
MS400824	8x 100FX Module Single Mode 1310nm SC	8x SC duplex
MS400824A/B	8x 100FX Module Single Mode WDM 1310nm/1550nm SC simplex	8x SC simplex

SFP

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)