MICROSENS

Product Overview

Gigabit Ethernet 10 Port Office Switch manageable

Description

The 10 port Gigabit Ethernet switch of MICROSENS with integrated management was developed to fulfil today's bandwidth demands. Two modular transceiver ports (SFPs) are offering a special flexibility for Fiber To The Office (FTTO) applications.

The office switch has eight twisted pair ports which set automatically to the correct speed (10/100/1000Base-T auto negotiation) of the connected end device. Due to the integrated auto crossover function is it possible to use the same 1:1 patch cables for cascading and end device connection. The switch detects the pin out and adjusts it automatically.

Additional there are 2x 10/100/1000Base-T or 1000X SFP Combo ports for the connection to the central switch. With the large range of SFPs it is possible to realise this uplink with copper and fiber. For the fiber interface there are several SFPs for multimode and single mode fiber available.

Properties

- Compact fan less Gigabit Ethernet switch with integrated power supply
- Integrated management with web-, SNMP,- and Telnet-interface
- 8x 10/100/1000T, 2x 10/100/1000T or SFP Combo Ports
- Data prioritisation according to IEEE802.3p/Q, VLAN support
- 802.1x port-based network access control (Authentication)
- Spanning Tree & Rapid Spanning Tree according to IEEE802.1d & 802.1w
- IGMP-Snooping, bandwidth management, etc.

Specifications

General

Type	Gigabit Ethernet Switch Layer 2+, IEEE 802.3 compliant IPv4/IPv6 L3 static routing
Performance	Store-and-forward, Full wire-speed, non-blocking on all ports
MAC-Adresses	8,192 addresses, automatic learning and aging
Jumbo Frames	max. 9208 bytes
VLANs	Supports Port-based VLAN and IEEE802.1Q Tag VLAN. Up to 4k active VLANs (out of 4096 VLAN IDs).
Quality of Service	Supports 8 hardware queues - Port based - 802.1p VLAN priority based - IPv4/IPv6 precedence / DSCP based - Differentiated Services (DiffServ) - Classification and re-marking ACLs
Management	SNMP version1, 2c and 3 HTTP/HTTPs; SSH DHCP Client/ DHCPv6 Client Cable Diagnostics Syslog Telnet Client IPv6 Management

Uplink (Pluggable Transceiver)

Number of Ports	2
Type	Gigabit Ethernet, 100/1000X
Connector	SFP slot
Flow Control	Pause frames

Control Panel

Reset Button	Reset of device, factory defaults are loaded

Environment

Operating Temperature	0..45 °C

Local Ports (Twisted-Pair)

Number of Ports	8+2 combo
Type	Gigabit Ethernet, triple speed 10/100/1000Base-T
Connector	RJ-45 jack, shielded
Cable Type	Twisted-Pair cable, category 5e, impedance 100 Ohm, length max. 100 m
Flow Control	Pause frames

Display

Type	13 LEDs, color coded
Power	Power Indication LED
Link	Local ports 1 to 8: blinking: activity green: authorized/forwarding off: when cable connection is not good
Status	10/100/1000Mbps Green/Amber Lit green when 1000Mbps speed is active Lit amber when 100Mbps speed is active Off when 10Mbps speed is active

Power Supply (AC)

Input Voltage	100..240 VAC (230 V typ.) 50..60 Hz (50 Hz typ.)

Storage Temperature	-20..85 °C	**Power Consumption**	Typ. 8 W

Relative Humidity	5..90%, non condensing

Mechanical

Dimensions	38(H)×220(W)×134(D) mm, without connectors
Housing Color	black

Standards Compliance

CE Mark	CE Mark
Electromagnetic Emission	EN55022 (CISPR 22) Class A EN 61000-3
Electromagnetic Immunity	EN 61000-4-2/3/4/5/6/8/11 EN 55024
IEEE (Ethernet)	IEEE 802.3/u/ab/x/z IEEE 802.1Q IEEE 802.1p IEEE 802.1X IEEE 802.1D IEEE 802.1w IEEE 802.1s IEEE 802.3ad IEEE 802.3AB

Order Information

Description	Article Number
10 Port Gigabit Ethernet Switch 8x10/100/1000Base-T, 2x 10/100/1000T or SFP Combo Ports, Management, internal power supply	**MS453526M**

Accessories

Description	Article Number
SFP Gigabit Ethernet Transceiver 1,25GB & 1.0625GB, 850nm Multimode LC	**MS100200D**
SFP Gigabit Ethernet Transceiver 1,25GB & 1.0625GB, 1310nm single mode LC 10km	**MS100210D**