Open Frame 8-port managed Gigabit Switch with copper and fiber

General Description

The MAGBES-20 Family (3rd Gen. of the MPL Switches) consist of models matching your application needs. The eight RJ45 ports can alternatively come with lockable headers, up to four of them can be fiber. All ports have status LEDs, indicating the activity and speed of each port, and can also be accessed remote, same applies for reset and default setting.

The Open Frame MAGBES solution is extremely compact and in addition, it can be used in a boxed version with RJ45 or M12 connectors, or in a MIL housing with MIL 38999 connectors of your choice. Supply power is 5–36VDC and uses under any condition less than 8W. Optional, it can be supplied with redundant power or different input voltage. The product can be operated at -20°C to 60°C and optionally even -40°C to 85°C.

For the fiber ports, most Ethernet compatible transceivers (acc. MSA) can be used. It allows the users to select the appropriate transceiver for each link.

As managed switch, the product gives access to various switch settings to configure features like: Quality of Service, VLAN, Rapid Spanning Tree, etc.. To adjust these switch settings, MPL provides an easy to use web interface.

MAGBES-20 Family Highlights

- Lockable headers for copper ports
- Wide input 5 36VDC
- Fully manageable over Web Interface or Telnet
- Copper or mixed Copper/Fiber versions
- Fanless operation
- Versions for –40°C to +85°C environment

These features make

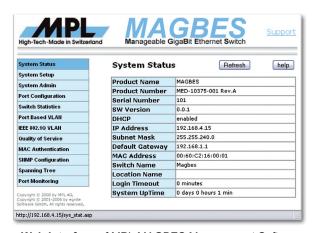
the Open Frame MAGBES switch ideally suited for any rugged or industrial network applications. Due to the low power consumption, robust and flexible design, the products are well suited for any embedded system. The MAGBES makes it easy to set up a challenging network!

MPL products are 100% designed and manufactured in Switzerland. All products are fanless, shock and vibration proof, low power, rugged, and long-term* available. The perfect solution for a system to be used in rugged environments.

* Typically 10 years or more, 20+ years repair-ability



Open Frame 8-port switch solution



Web Interface of MPL MAGBES Management Software



MIL Version of the 8-port switch

MPL AG is an ISO9001 certified company

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High-Tech • Made in Switzerland

Technical Features

Board Key Data

Switch lookup Engine support up to 1024 MAC entries with automatic learning and aging

supports auto crossover (Auto MDI/MDIX)

support polarity correction

Jumbo Frame support

up to 10k Byte

Status LED

2 LEDs for each copper port (Link/Activity and Speed indicators)

1 LED for each SFP (Link/Activity indicators)

Interfaces

Up to 8 Ports 2mm lockable header or high quality RJ45 connectors

Up to 4 Fiber Ports Supports standard SFP Modules (Single and Multimode) at a data rate 100Mbit and 1Gbit

Management Software

MPL developed and maintains a management SW with easy to use web interface.

Management supports: • Port Based VLAN

IEEE 802.1Q VLANIEEE 802.1X MAC Address Checking

Quality of Service

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• IEEE 802.1D RSTP support

Port monitoring

SNMP V1, V2c, V3 support

Firmware Update via HTTP or TFTPTLS (HTTPS)

Telnet

· IGMPv3 snooping

Power

Input voltage 5VDC- 36VDC Input range, input over 4-pin power connector

Power consumption Typically 8W

Environment

Storage Temperature -45°C to 85°C (-49°F to 185°F)

Operating Temperature -20°C to 60°C (-4°F to 140°F) at full operation

optionally -40°C to 85°C (-40°F to 185°F) at full operation

Relative Humidity 5% to 95% none condensing

Standard Compliance

The MAGBES is designed to meet or even exceed the most common standard Particular references are:

EMC EN 55022, EN 55024, EN 61000, MIL-STD-461E

Shock & Vibration EN 60068

Environmental & Safety EN 50155, MIL-STD-810-F, EN 60601, EN 60950

Approval List CE, IEC 60945, IACS E10

The MAGBES Family has been successfully tested according EN50155, MIL-STD-810-G as well as CE marking

Packaging

Chassis version	length	width	heights	weight	
8-port Open Frame RJ45	90.2 x	95.9 x	30.8 mm	180g	PC/104 size
8-port Open Frame Header	90.2 x	95.9 x	22.5 mm	180g	PC/104 size

MAGBES 8-port Open Frame Versions MAGBES 211H Product Description Port Config SFP copper MAGBES Manageable Ethernet Switch 211H 8 x header 212H 2 6 x header 222H 4 x header

Options

· Redundant power input

· Different power input range

· Galvanic isolation

· Coating and bonding

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