Boxed Rugged 8-port 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 ports can be equipped with RJ45 or M12 connectors, up to four of them can be fiber. All ports have status LEDs, indicating the activity and speed of each port. The indication signals can also be accessed remote, same applies for reset and default setting.

The Boxed MAGBES solution is extremely compact and in addition, it can be used as Open Frame solution 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. Additionally available is also coating and bonding of the switch.

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

- DIN-Rail / Flange mount
- 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

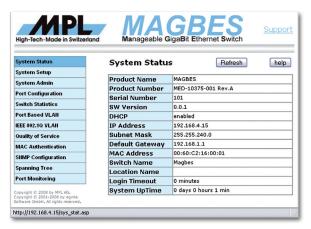
the boxed MAGBES switch ideally suited for any rugged or industrial network applications. Due to the low power consumption, robust and flexible design, the products are well suited for any embedded system. The MAGBES makes it easy to set up a challenging network!

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



Boxed 8-port MPL Switch with 6 copper ports on RJ45 and 2 fiber ports on SFP



Web Interface of MPL MAGBES Management Software



8-port MPL Switch with 8 x M12 connectors and power for use in Railway applications

MPL AG is an ISO9001 certified company

Web: www.mpl.ch

Email: info@mpl.ch

MPL AG, Täfernstrasse 20, CH-5405 Dättwil Phone +41 56 483 34 34 Switzerland

High-Tech • Made in Switzerland

Technical Features

Board Key Data

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

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 High quality RJ45 or M12 connectors (X-coded or D-coded)

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.

 Port Based VLAN Management supports: IEEE 802.1Q VLAN

> · Quality of Service IEEE 802.1X MAC Address Checking

• IEEE 802.1D RSTP support Port monitoring

 SNMP V1, V2c, V3 support • Firmware Update via HTTP or TFTP

 Telnet TLS (HTTPS)

· IGMPv3 snooping

Power

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

Power consumption for all versions Typically 8W

Environment

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

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

CE, IEC 60945, IACS E10 Approval List

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

x 118 x 162 mm DIN-Rail/Flange 83.0 1.4kg custom color or foil available

IP67 MIL custom housings and connectors available 175 x 182 x 66 mm 2.1kg (4.66lb)

Open Frame solutions are available, see specific datasheet

MAGBES 8-port Versions Product Description MAGBES Manageable Ethernet Switch

Mechanical	Description	
F	Standard housing, Flange mount	
D	Standard housing, DIN-Rail mount	
М	MIL housing	

	Port Config	copper	SFP
-	211R	8 x RJ45	0
	211M	8 x M12	0
	212R	6 x RJ45	2
	212M	6 x M12	2
	222R	4 x RJ45	4
	222M	4 x M12	4

Options

· Redundant power input

· Different power input range

· Galvanic isolation

· Coating and bonding

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