

Boxed Rugged 5-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 five ports can be equipped with RJ45 or M12 connectors, up to two 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 4W. 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

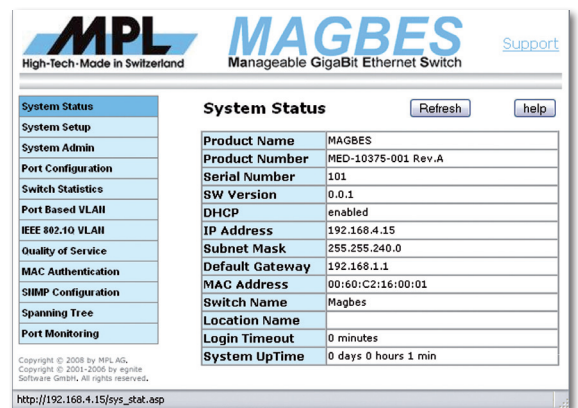
the boxed MAGBES switch ideally suited for any rugged or industrial network applications. Due to the low power consumption, robust and flexible design, the products are well suited for any embedded system. The MAGBES makes it easy to set up a challenging network!

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 MPL Switch with 5 ports (3 x RJ45 & 2 x SFP)



Web Interface of MPL MAGBES Management Software



MAGBES built in MIL housing for Military Environments



Boxed MPL Switch with 5 x M12 Gigbit ports

MPL AG is an ISO9001 certified company

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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 5 Ports	High quality RJ45 or M12 connectors (X-coded or D-coded)
Up to 2 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:	<ul style="list-style-type: none"> • Port Based VLAN • Quality of Service • IEEE 802.1D RSTP support • SNMP V1, V2c, V3 support • Telnet • IGMPv3 snooping • IEEE 802.1Q VLAN • IEEE 802.1X MAC Address Checking • Port monitoring • Firmware Update via HTTP or TFTP • TLS (HTTPS)
Power	
Input voltage	5VDC - 36VDC Input range, input over 4-pin power connector
Power consumption	Typically 4W for all versions
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	
DIN-Rail/Flange	62.0 x 118	x 162	mm	1.2kg	custom color or foil available
IP67 MIL	175 x 182	x 66	mm	2.1kg (4.66lb)	custom housings and connectors available
Open Frame solutions are available, see specific datasheet					

MAGBES 5-port Versions			MAGBES	F	21R		
Product	Description						
MAGBES	Manageable Ethernet Switch						
Mechanical	Description						
F	Standard housing, Flange mount						
D	Standard housing, DIN-Rail mount						
M	MIL housing						
					Port Config	copper	SFP
					21R	5 x RJ45	0
					21M	5 x M12	0
					22R	3 x RJ45	2
					22M	3 x M12	2

Options

<ul style="list-style-type: none"> • Redundant power input • Galvanic isolation 	<ul style="list-style-type: none"> • Different power input range • Coating and bonding
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