

# 5-Port Managable Gigabit Ethernet Switch

## for applications with copper and fiber

### General Description

The MAGBES-10 Family consists of 6 different manageable Gigabit Ethernet Switch models. The boards are PC/104 sized and offered as stand-alone, PC/104 stacked and special PIP built-in mechanical versions. They are available with different port configurations, either with 5 copper ports, or with 3 copper and 2 SFP optical transceiver ports.

Small form-factor pluggable (SFP) transceivers are available with a variety of different transmitter and receiver types. It allows the users to select the appropriate transceiver for each link to provide the required fiber optical interface.

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 together with the MAGBES.

### MAGBES-10 Family Highlights

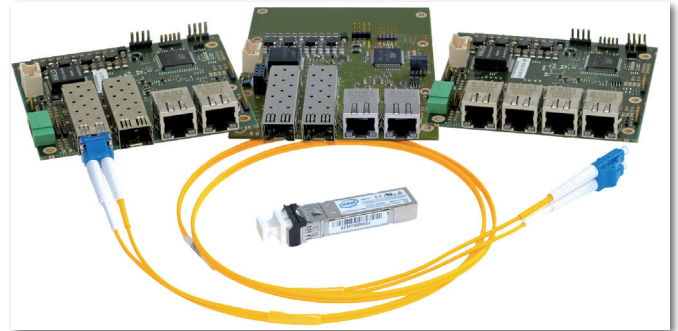
- 5-port Gigabit Ethernet switch
- Fully manageable over web interface
- Copper and Fiber optic versions
- Stand alone and PC/104 stacked versions
- Low power – fanless operation
- Extended temperature option –40°C to +85°C
- Jumbo Frame supported

### These features make

the MAGBES 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. It is the perfect fit, whether they are used in a rugged, hot or other harsh environment. 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



Different MAGBES-10 Versions

System Status	
Product Name	MAGBES
Product Number	MED-10375-001 Rev.A
Serial Number	101
SW Version	0.0.1
DHCP	enabled
IP Address	192.168.4.15
Subnet Mask	255.255.240.0
Default Gateway	192.168.1.1
MAC Address	00:60:C2:16:00:01
Switch Name	Magbes
Location Name	
Login Timeout	0 minutes
System UpTime	0 days 0 hours 1 min

Web Interface of MPL MAGBES Management Software



MIL-MAGBES-10 for rough use in Military Environments

MPL AG is an ISO9001 certified company

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## Technical Features

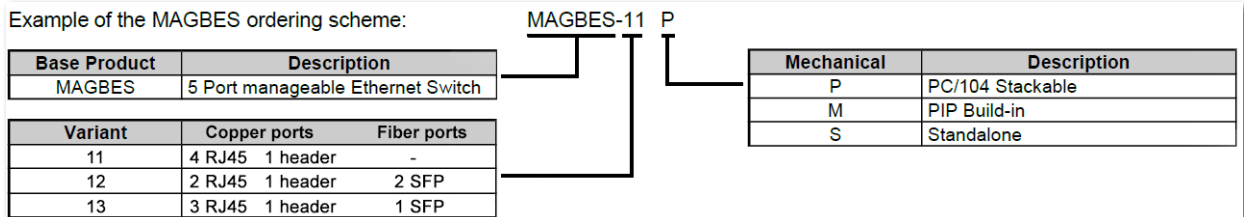
<b>Board Key Data</b>	
Switch lookup Engine	support up to 1024 MAC entries with automatic learning and aging supports auto crossover (Auto MDI/MDIX) support polarity correction
Jumbo Frame support	up to 10k Byte
Status LED	2 LEDs for each copper port (Link/Activity and Speed indicators) 1 LED for each SFP (Link/Activity indicators)
external Status LED	all LED for remote indication are available over lockable header
Earthing Area	board is prepared connect the shield of none RJ45 Ethernet cables, fixation possibility
<b>Interfaces</b>	
Copper Ports	2mm lockable header or high quality RJ45 connectors 1x internal on lockable 2mm header
Up to 2 Fiber Ports	supports standard SFP Modules (Single and Multitude) at a data rate 100Mbit and 1Gbit
<b>Management Software</b>	
MPL developed and maintains a management SW with easy to use web interface.	
Management supports:	<ul style="list-style-type: none"> <li>• Port Based VLAN</li> <li>• Quality of Service</li> <li>• IEEE 802.1D RSTP support</li> <li>• SNMP Support</li> <li>• Telnet</li> <li>• IEEE 802.1Q VLAN</li> <li>• IEEE 802.1X MAC Address Checking</li> <li>• Port monitoring</li> <li>• Firmware Update via HTTP or TFTP</li> </ul>
<b>Power</b>	
Input voltage	5VDC- 36VDC Input range, 5VDC input over 4-pin power connector over PCI-104 or PC/104 bus interface
Power consumption	Typically 4W for all versions
<b>Environment</b>	
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
<b>Standard Compliance</b>	
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	
Open Frame	90.2 x	95.9 x	13.8 mm	90g	PC/104 size (versions -2xS and -2xP)
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

## MAGBES-10 Versions

Example of the MAGBES ordering scheme:



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