

# MAGBES

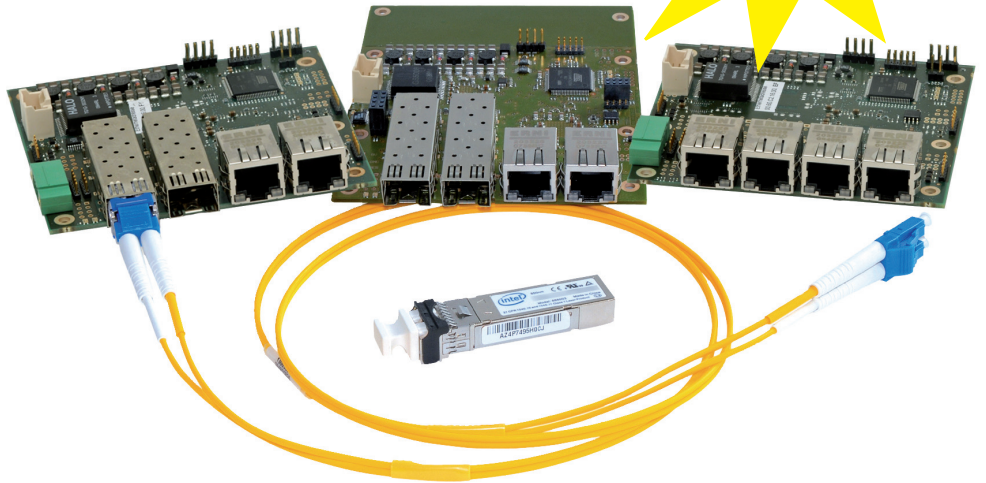
## 5 Port Manageable Gigabit Ethernet Switch

With  
Jumbo  
Frame  
Support

### General Description

The MAGBES-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.



Different MAGBES models


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 a easy to use web interface together with the MAGBES.

### MAGBES specialties

- 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

### Those features make

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. MAGBES makes it easy to set up a challenging network!

**MAGBES**  
Manageable GigaBit Ethernet Switch

Support

**System Status**

System Setup

System Admin

Port Configuration

Switch Statistics

Port Based VLAN

IEEE 802.1Q VLAN

Quality of Service

MAC Authentication

SIIMP Configuration

Spanning Tree

Port Monitoring

**System Status**

Refresh

help

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

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http://192.168.4.15/sys\_stat.asp

Web interface of MPL MAGBES Management Software

# Technical Features MAGBES

## Board Key Data

Ethernet Switch	5-port manageable Gigabit Switch	lookup engine support up to 1024 MAC entries with automatic learning, aging
Copper Ports	on RJ45 and 2mm lockable header	supports auto crossover, polarity correction
Fiber Ports	over standard SFP transceivers	supports Single and Multimode fiber data rate 100Mbit and 1Gbit
Status LEDs	2 LEDs for each copper port 1 LED for each SFP	Link/Activity and Speed indicators Link/Activity indicators
Specials	Jumbo Frame up to 10kBytes supported	on all new MAGBES versions (-1x)

## Physical / power

Size (length x width x height)	90.2 x 95.9 x 13.8 mm 120.0 x 95.9 x 13.8mm	PC/104 size (versions -1xS and -1xP) specific PIP built-in (version -1xM)
Weight	100g / 0.22 lbs	fully equipped MAGBES-11S
Power	+5VDC ± 5%	input over 3-pin power connector or over PC/104 bus interface
Power consumption	Typically 3.5W Typically 7.5W	5 x 100Mbit copper links 5 x 1Gbit copper links
Temperature Range	-20°C up to 60°C	optional -40°C up to 85°C
Humidity	5% - 95% non condensing	optional bonding & coating available

## MAGBES versions

Product number	Mechanical Version	Ethernet Ports Configuration		
		Copper on RJ45	SFP for Fiber optic	Copper on lockable 2 mm header
MAGBES-11S	Stand alone	4		1
MAGBES-12S	Stand alone	2	2	1
MAGBES-11P	PC/104 stacked	4		1
MAGBES-12P	PC/104 stacked	2	2	1
MAGBES-11M	PIP built-in	4		1
MAGBES-12M	PIP built-in	2	2	1

Please note, not always all versions are available from stock.

## Management Software

MPL provides together with the MAGBES a management SW with easy to use web interface.

This firmware is based on the Ethernut Operating system.

The MAGBES HW and SW is fully developed, designed and produced by MPL AG in Switzerland.

## Other MPL PC/104 Peripherals

Product Family	Function	Form Factor
LAN104	Single & dual 10/100 Mbit Ethernet modules	PC/104-Plus
SPIDERLAN	Ethernet-Switch modules with up to 8 ports	PC/104-Plus
OSCI	Four or eight RS232/RS485/RS422 serial lines	PC/104-Plus
PCCARD	PCMCIA PC Card adapter with two slots	PC/104-Plus
IDE2CF / IDE2PCC	IDE to CompactFlash or IDE to PC Card adapter	PC/104

## Other MPL Products

Embedded CPU Boards	Embedded, rugged Industrial CPU boards with PowerPC, x86 and ARM CPUs. Products with lowest power consumption, long-term availability and highest reliability.
Industrial PCs	Fanless, rugged Packed Industrial PCs with Intel CPUs in various housings and with many accessories. Products for extended temperature (-40° up to +75°C) and with long-term availability
Panel PCs	Fanless, IP65/NEMA4 protected Panel PCs (all around). Solutions with 6" - 19" LCDs and Touch in special aluminum or stainless steel case.
Engineering & Support	Professional engineering, support and consulting by MPL engineers on Hardware and Software.

MPL AG is an ISO9001 certified company

This product includes software developed by egnite Software GmbH and its contributors.