

Compact managed 10-, 19-, 28-port Gigabit Switch with lockable headers

General Description

The μMAGBES Family is a 10-28 port manageable Gigabit Ethernet switch of the 4th generation of MPL switches. The robust design, low power consumption, and the various mechanical configurations make the switch ideally suited for any application that need a rugged and reliable solution.

Besides manageable features such as Quality of Service, Port Based VLAN, and IEEE 802.1Q VLAN, the μMAGBES also supports Rapid Spanning Tree IEEE 802.1D 2004 and allows to use redundant Ethernet connections without introducing network loops.

The μMAGBES board is equipped with lockable headers. 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 μMAGBES 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 6W (10-ports). The product can be operated at -20°C to 60°C and optionally even in extended temperature.

μMAGBES Highlights

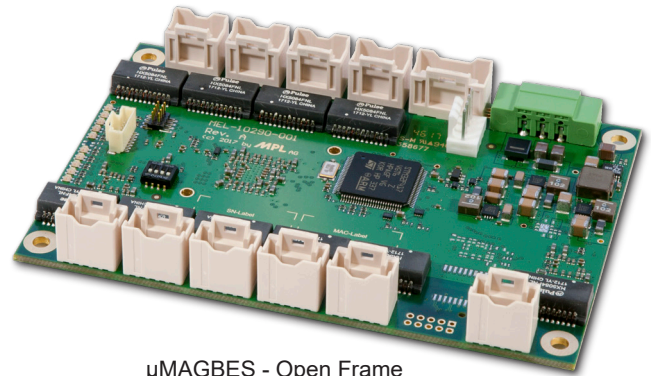
- Lockable headers for all ports
- Wide input 5 - 36VDC
- Fully manageable over Web Interface or Telnet
- 10 up to 28 ports
- Fanless operation
- Versions for extended temperature -40 to +85°C
- Can be used unmanaged
- 1588 PTP support

These features make

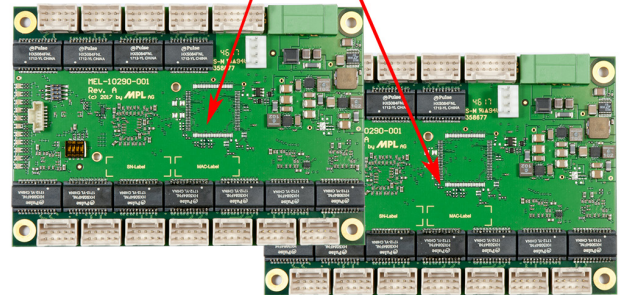
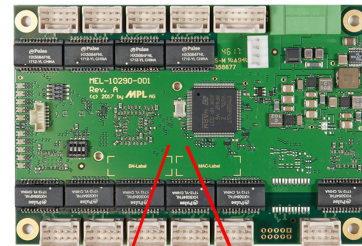
the μMAGBES switch ideally suited for any rugged or industrial network application. Due to the low power consumption, robust and flexible design, the product is well suited for industries like Railways, Maritime, or Defense. The μMAGBES makes it easy to set up a challenging network!



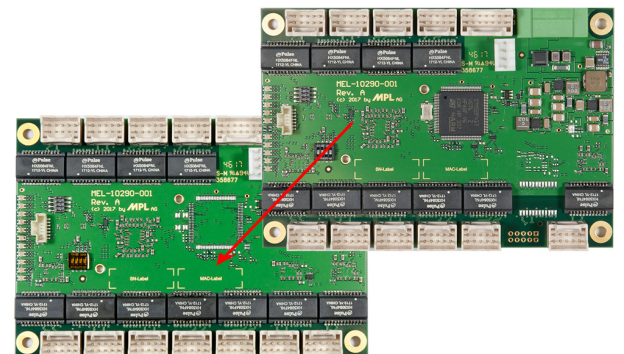
All MPL products are 100% designed and manufactured in Switzerland.



μMAGBES - Open Frame managed 10 port Gbit switch (115x75mm)



μMAGBES with slave boards to create 28 port switch



μMAGBES with slave board to create 19 port switch

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)
Interfaces	
LAN	μMAGBES-A10 - 10-port Gigabit on 2mm lockable headers μMAGBES-A19 - 19-port Gigabit on 2mm lockable headers μMAGBES-A28 - 28-port Gigabit on 2mm lockable headers housing & connector kits for M12, RJ45, and Fiber
CLI	Optional CLI interface over Micro USB connector
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) • gPTP (1588 PTP support)
Power	
Input voltage	5VDC- 36VDC Input range, input over 4-pin power connector
Power consumption	Typically 6W per 10 ports
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 μMAGBES 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, IEC / EN 62368
Approval List	CE, IEC 60945, IACS E10

Dimensions

Chassis version	length	width	heights	weight
10-port Open Frame	115mm	x 75mm	x 22.5mm	180g
Optional coating and bonding available				

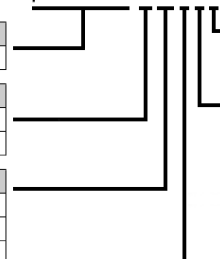
Ordering Information

Product	Description
μMAGBES	Managed Ethernet Switch

Version	Description
A	Standard
C	With CLI

Ports	Description
10	Quantity of ports
19	Quantity of ports
28	Quantity of ports

μMAGBES-A10DRX



Option	Description
X	-40°C to +85°C

Copper	Description
R	RJ45
HR	Horizontal Header (MOQ 50 pieces)
H	Header
MX/MD	M12 (X or D coded)
D	D38999 connector

Mount	Description
O	Open Frame
D	DIN-Rail
F	Flange
R	Rack
M	MIL housing

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