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
- 1588 PTP support

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

High-Tech · Made in Switzer	rland Manageable G	igaBit Ethernet Switch	_
System Status	System Statu	s Refresh	help
System Setup	Product Name	MAGBES	
System Admin	Product Number	MED-10375-001 Rev.A	
Port Configuration	Serial Number	101	
Switch Statistics	SW Version	0.0.1	
Port Based VLAN	DHCP	enabled	
IEEE 802.10 VLAN	IP Address	192.168.4.15	
Quality of Service	Subnet Mask	255.255.240.0	
MAC Authentication	Default Gateway	192.168.1.1	
SIMP Configuration	MAC Address	00:60:C2:16:00:01	
-	Switch Name	Magbes	
Spanning Tree	Location Name		
Port Monitoring	Login Timeout	0 minutes	
opyright @ 2008 by MPL AG,	System UpTime	0 days 0 hours 1 min	

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



Technical Features

Beard Key Data	
Board Key Data	support up to 1024 MAC entries with sutematic learning and exing
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 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	
-	ntains a management SW with easy to use web interface.
Management supports:	• Port Based VLAN • 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 • gPTP (1588 PTP support)
Power	
	5VDC - 36VDC Input range, input over 4-pin power connector
Input voltage Power consumption	Typically 8W 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	
	d 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
	been successfully tested according EN50155, MIL-STD-810-G as well as CE marking
,	

Packaging

Chassis version	length width		n	heights	weight				
DIN-Rail/Flange	83.0	х	118	х	162 mm	1.4kg	custom color or foil available		
IP67 MIL	175	х	182	х	66 mm	2.1kg (4.66lb)	custom housings and connectors available		
Open Frame soluti	ons are	av	ailabl	e, s	see specific	datasheet			

AGBES 8-por	Versions	MAGBES	F	<u>211</u> R			
Product	Description				Port Config	copper	SFP
MAGBES	Manageable Ethernet Switch				211R	8 x RJ45	0
					211M	8 x M12	0
Mechanical	Description				212R	6 x RJ45	2
Mechanical F	Description Standard housing, Flange mount				212R 212M		2
Mechanical F D						6 x RJ45	2 2 4

Options

- Redundant power input
- Different power input range
- Coating and bonding

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· Galvanic isolation



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