

## Flexible rugged managed Gigabit Switch suitable for any Defense Application

The new  $\mu$ MAGBES Family is a up to 28-port manageable Gbit Ethernet switch of the 4th generation MPL switches. The solution is designed according MPL's design philosophy which includes flexibility, low power consumption, fanless, extended temperature capability, and long-term availability.

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The  $\mu$ MAGBES-MIL is extremely compact, therefore as most compact switch solution, MPL can offer a 10-port switch in an IP67 housing with two 38999 connectors in the size of 130 x 130 x 55 mm. Hence it is the perfect SWaP-C switch solution and can be integrated in smallest space. Other housings and configurations are available, e.g. Individual LAN connector for each port.

The  $\mu$ MAGBES-MIL comes with lockable headers to interface to 38999 connectors, complying with any defense specification. If the solution needs one or more fiber ports, then this can be provided with a standard product available from MPL.

The standard input power requirement of the  $\mu$ MAGBES is 5-36VDC and the device uses less than 6W at full speed with 10 ports operational. Other input voltages can certainly be offered depending on specification. The switch can be operated in an environment of -20°C up to +60°C, and optionally -40°C to +85°C and does not need to be cooled by a fan.

The new  $\mu$ MAGBES is designed to be operated in a Master-Slave configuration, making a flexible system with a cascaded switch easy. The solution is available with up to 28 ports or more, including a Command Line Interface (CLI) option. All ports have status LEDs, showing the activity and speed of each port and are available on an external LED panel. The same applies for the reset switch and the default settings.

The  $\mu$ MAGBES supports features such as (but not limited to):

- Configurable via Web Interface (including SSL), Telnet, SNMP (incl. SNMPv3) or RS232/USB (CLI)
- Port-based and IEEE 802.1Q VLAN
- IEEE 802.1D Rapid Spanning Tree
- IEEE 802.1X MAC Address Checking
- Quality of Service
- Port monitoring & Switch statistics
- Firmware Update via HTTP or TFTP
- Down-/upload configuration files in XML format
- GMPv3 support
- PTP support

All MPL products are designed for long-term availability and the  $\mu$ MAGBES will be available for at least 10 years. MPL's own component stock guarantees repairs for up to 20 years. Extended temperature ranges can be fulfilled and are tested in MPL's own climatic chambers according to customer's request.

The solution meets or exceeds the most common standards. Particular references are: MIL-STD-461, MIL-STD-810, MIL-STD-1275 just to name a few.

For more specific information, please visit [www.mpl.ch/t2873b.html](http://www.mpl.ch/t2873b.html) or contact MPL AG directly.

### *About the Company*

MPL AG is located in Switzerland and was founded in 1985. Since the beginning, MPL stands for robust designs, long-term availability, low power consumption, and fanless concepts. The products are designed from scratch to succeed in extended temperature and meeting the high demands of rugged environments.

### *Contact information*

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