COMPLIANT Ext. Temp

COMPLIANT MIL-STD 810G

COMPLIANT MIL-STD 461E

IP67

Rugged managed 12-port Gbit Switch build in robust MIL housing

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General Description

The µMAGBES-A12MDX is a 12-port manageable Gigabit Ethernet switch, comes with 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 Long-term availability, Quality of Service, Port Based VLAN, and IEEE 802.1Q VLAN, the µMAGBES also Supports ports Rapid Spanning Tree IEEE 802.1D 2004 and allows to use redundant Ethernet connections without introducing network loops.

This µMAGBES solution is equipped with D38999 support connectors. All ports have optional status LEDs, indicating the activity and speed of each port, including reset and default setting.

The µMAGBES switch solution is extremely compact and comes as open frame with lockable headers or as boxed version with D38999. Supply power is 24 V DC and uses under any condition less than 10W. The product can be operated at -20°C to 60°C and optionally even in extended temperature to be used outdoors. The solution is available with DIN-Rail or Flange mounting

µMAGBES Highlights

- High-End D38999 connectors
- Rugged MIL housing
- Fully manageable over Web Interface or Telnet.
- Fanless operation Can be used unmanaged
- Long-term availability.

These features make the µMAGBES switch ideally suited for any rugged or industrial network application with long life cyclerequirements. Due to the low power consumption, robust and flexible design, the product is well suited for tough environments. The µMAGBES makes it easy to set up a challenging network!

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 up Jumbo Frame support: to 10k Byte
Status LED: 2 LEDs for each copper port (Link/Activity and Speed Internal indicators)

Interfaces
Copper Ports: 12 x 1Gbit LAN ports
I/O Interfaces: 1 x power over D38999/20WA98PA
Over MIL connectors: 12 x LANs over TVP00RW-9-9SN & Optional CLI USB/Serial
Over D38999 Mil connector

Management Software
MPL developed and maintains a management SW with easy to use web interface
Management supports:

1)Port Based VLAN 2)IEEE 802.1Q VLAN   3)Quality of Service
3)IEEE 802.1X MAC Address Checking 4)IEEE 802.1D RSTP support Port monitoring
5)SNMP V1, V2c, V3 support 6)Firmware Update via HTTP or TFTP   7)Telnet
8)TLS (HTTPS) 9)IGMPv3 snooping

Power
Input voltage: 24V DC Input
Power consumption: Typically 10W

Environment
Operating Temperature:20°C to 60°C (-4°F to 140°F) at full operation, optional -40°C to +85°C
Storage Temperature:45°C to 85°C
Relative Humidity: 5% to 95% RH @ 45°C
Vibration:5-20Hz, 6dB/octave 20-50Hz: 0.02g2/Hz & then rolling upto 0.001 g2/Hz at 50 to 500 Hz
EMI/EMC: As per MIL-STD-461ECE102, CS101, CS114, CS116, RE102, RS103, CS115 & HESD

Mechanical
Dimension / Weight:330 (W) x 250 (H) x 70 (D) mm / <3Kg
Material: Aluminum He30
Color: Siemens Grey / Black Color

Standard Compliance
The µMAGBES-A12MDX :is designed to meet or even exceed the most common standard, particular references are:
EMCEN: 55022, EN 55024, EN 61000, MIL-STD461E
Shock & Vibration: EN 60068/MIL-STD810
Environmental & Safety: EN 50155, MIL-STD810-F, EN 60601, EN 60950
Approval List: CE, IEC 60945, IACS E10

Ordering information

µMAGBES-A12MDX

	Description
µMAGBES	managed ethernet switch

Version	Description
A	Standard

Ports	Description
8	Quantily of ports
12	Quantily of ports
16	Quantily of ports

Option	Description
X	-40°C to+85°C

Copper	Decsription
D	D38999 connector

Mount	Description
M	MIL Housing