



# Rugged Managed 8-port Gbit Switch

## build in robust CompactMIL housing

### General Description

The  $\mu$ MAGBES-A8MDX is a 8-port manageable Compact Gigabit Ethernet switch of the 4th generation of Thrikasa 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 Long-term availability, Quality of Service, Port Based VLAN, and IEEE 802.1Q VLAN, the  $\mu$ MAGBES also supports Rapid Spanning Tree IEEE 802.1D 2004 and allows to use redundant Ethernet connections without introducing network loops.

This  $\mu$ MAGBES solution is equipped with D38999 connectors. All ports have optional status LEDs,

indicating the activity and speed of each port, including reset and default setting.

The  $\mu$ MAGBES switch solution is extremely compact and comes as open frame with lockable headers or as boxed version with D38999. Supply power is 28 V DC and uses under any condition less than 10W. The product can be operated at  $-20^{\circ}\text{C}$  to  $60^{\circ}\text{C}$  and optionally even in extended temperature to be used outdoors. The solution is available with DIN-Rail or Flange mounting.

### $\mu$ MAGBES 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  $\mu$ MAGBES switch ideally suited for any rugged or industrial network application with long life cycle requirements. Due to the low power





consumption, robust and flexible design, the product is well suited for tough environments. The  $\mu$ MAGBES makes it easy to set up a challenging network!



## Technical Features

<b>Board Key Data</b>	
Switch lookup Engine	support up to 1024 MAC entries with automatic learning and aging supports auto crossover (Auto MDI/MDIX) support polarity correction up to 10k Byte
Jumbo Frame support	to 10k Byte
<b>Interfaces</b>	
Copper Ports	8 x 1Gbit LAN ports
I/O Interfaces	1 x power over D38999
Over MIL connectors	8 x LANs over D38999 Mil connector
<b>Management Software</b>	
MPL developed and maintains a management SW with easy to use web interface.	
Management supports: (Layer 2 managed sw)	<ul style="list-style-type: none"> <li>• Port Based VLAN</li> <li>• Quality of Service</li> <li>• IEEE 802.1D RSTP support</li> <li>• SNMP V1, V2c, V3 support</li> <li>• Telnet</li> <li>• IGMPv3</li> <li>• IEEE 802.1Q VLAN</li> <li>• IEEE 802.1X MAC Address Checking</li> <li>• Port monitoring</li> <li>• Firmware Update via HTTP or TFTP</li> <li>• TLS (HTTPS)</li> </ul>
snooping <b>Special Features:</b> Routes packets using IP address Access Control Lists:	
<ul style="list-style-type: none"> <li>• consist of up to 32 Entries.</li> <li>• Each entry allows to match a frame up to 96 octets.</li> <li>• Allows to drop, permit or change the destination port vector of the matched frame. With this it may be possible to do some sort of "IP routing", with the following limitations: <ul style="list-style-type: none"> <li>- only up to 32 different IPs respectively subnets. This means that it is possible that one entry matches a completely subnet. Ex: 192.168.1.0/24.</li> </ul> </li> <li>• The routing table is static.</li> <li>• No routing protocols are supported.</li> <li>• Frames will not be modified.</li> </ul>	
<b>Power</b>	
Input voltage	28V DC Input
Power consumption	Typically 20W
<b>Environment</b>	
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-461E CE102, CS101, CS114, CS116, RE102, RS103, CS115 & HESD
<b>Mechanical</b>	
Material	Aluminum HE30/AL6061, Color: Black Color
DIMENSIONS	250x235x65mm
<b>Standard Compliance</b>	
The μMAGBES-A8MDX 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/MIL-STD-810
Environmental & Safety	EN 50155, MIL-STD-810-F, EN 60601, EN 60950
Approval List	CE, IEC 60945, IACS E10



### μMAGBES-C--A8MDX

#### Ordering Information

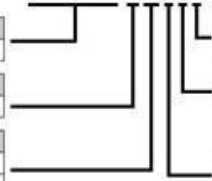
Product	Description
μMAGBES	Managed Ethernet Switch

Version	Description
A	Standard

Ports	Description
8	Quantity of ports
12	Quantity of ports
16	Quantity of ports



Option	Description
X	-40°C to +85°C

Copper	Description
D	D38999 connector

Mount	Description
M	MIL housing