

# Boxed 10-Port Gigabit Switch

with 2x SFP+ 10Gbit Ports (fiber)

## MPL AG

Powering industries since 1985:

Unrivalled Quality, Swiss Precision.

MPL - Your Trusted Leader in Rugged, Fanless Electronics and Embedded Systems, proudly manufactured and designed in Switzerland.



## General Description

The fanless μMAXBES-C8F1 comes with 8x 1Gbit and 2x 10Gbit ports. The version offers the 1Gbit ports on RJ45 connectors. The 10Gbit ports are equipped with SFP cages. All ports have status LEDs, indicating the activity and speed of each port. The μMAXBES-C8F1 is ideally suited for any rugged or industrial network applications.

## Key Features

- ✓ 2x 10Gbit ports to be used with SFP+
- ✓ 8x RJ45 connectors for the 1Gbit ports
- ✓ Wide input 5-36VDC
- ✓ Fully manageable over Web interface or Telnet
- ✓ Fanless operation
- ✓ IEEE802.1AS gPTP support
- ✓ Optionally CLI via RS232
- ✓ Operated at -40°C to +85°C



## Interfaces Ports

8x 1Gbit on RJ45 and 2x 10Gbit SFP+

### 1Gbit Copper Ports (8x)

- ✓ Auto crossover (Auto MDI/MDIX)
- ✓ Auto polarity correction
- ✓ Auto negotiation
- ✓ 10BASE-T, 100BASE-TX, 1000BASE-T

### 10Gbit SFP Ports (2x)

- ✓ Supports all 10Gbit SFP+ and 1Gbit SFP which are MSA compliant and Ethernet compatible
- ✓ Support for direct attached cable SFP+ (DAC)
- ✓ Support for digital diagnostics monitoring

## Management Software Management Supports

MPL developed and maintains a management SW with easy to use web interface.

- |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>✓ Accessible via http, https, Telnet or serial</li> <li>✓ SNMPv1, v2c and v3 support</li> <li>✓ Switch statistic</li> <li>✓ IEEE 802.1Q VLAN</li> <li>✓ IEEE 802.1X MAC Address Checking</li> <li>✓ Port monitoring</li> <li>✓ IGMPv3 support</li> </ul> | <ul style="list-style-type: none"> <li>✓ DHCP Client</li> <li>✓ Port Based VLAN</li> <li>✓ IEEE 802.1D RSTP support</li> <li>✓ Firmware Update via HTTP or TFTP</li> <li>✓ Trunking support</li> <li>✓ gPTP IEEE802.1AS</li> </ul> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Standard Compliance

The  $\mu$ MAXBES is designed to meet or even exceed the most common standard Particular references are:

EMC	Shock & Vibration	Environmental & Safety	Approval List
✓ EN 55022	✓ EN 60068	✓ EN 50155	✓ CE, IEC 60945
✓ EN 55024		✓ MIL-STD-810	✓ IACS E10
✓ EN 61000		✓ EN 60601	
✓ MIL-STD-461		✓ IEC / EN 62368	



## 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
- ✓ -40°C to +85°C optional

### Relative Humidity

- ✓ 5% to 95% none condensing

## Board Key Data

### Switch lookup Engine

- ✓ High performance lookup engine, supports up to 16k MAC entries
- ✓ IEEE 802.3x flow control, back pressure flow control

### Status LED

- ✓ 1 dual color LED for each copper port (Link, Activity and Speed indicators)
- ✓ 1 LED for each SFP (Link and Activity indicators)

## Power

### Input Voltage

- ✓ 5VDC- 36VDC Input range, reverse polarity protection

### Power Consumption

- ✓ 6W fully operational with SFP+ module

## Packaging

Chassis version	width	depth	height	weight (kg)	comment
DIN-Rail	162mm	120mm	62mm	1.2 (2.7 lb.)	custom color or foil
Flange	162mm	120mm	62 mm	1.25 (2.8 lb.)	custom color or foil

Didn't find what you are looking for? The switch can be customized on request.

