



## RY-LPITE-802GBTME

- DIN rail mounting
- Copper ports: 8x10/100/1000TX, RJ45
- 8 ports with PoE, PoE+ and PoE++
- Optical fibre ports: 2 x 100/1000 MBit/s SFP
- Manageable, Layer 2/3, ring redundant, DMS
- IEEE 1588 V2, PTP
- Power supply 54 VDC, redundant

This robust, high-quality switch is designed for use in powerful 10, 100 and 1000MBit/s Ethernet ring network structures according to IEEE802.x. The eight copper ports feature Power over Ethernet with PoE, PoE+ and PoE++. These devices have been specially developed for video networks. The switch allows the construction of one or more error tolerant rings via two or more connections. In the event of an interruption, the ring closes automatically in less than 50ms. This increases the availability of the system

## Produktinformationen

### Brief description

Industrial L2/L3 Switch with management, PoE+, PoE++ and DMS

### Special Feature for Video Networks

#### Active surveillance of the camera

Cameras powered by the switch via PoE are continuously monitored. In the event of a camera failure, the switch restarts the camera automatically. If this fails, the switch sends an alarm message via SNMP.

#### Active monitoring of PoE power supply

If, for example, a defective camera requires too much power from the switch, the switch alerts via SNMP.

#### Active management of PoE performance

When the switch is started up, the individual PoE ports can be started up with a time delay to prevent the PoE power supply from being overloaded.

#### Additional video-friendly features

Extra high backplane performance for smooth video transmission with full port occupancy. Jumbo frames up to 9600Bytes are also supported at 100MBit/s. Port security through MAC address limitation.

### DMS

## DMS (Device Management System)

This switch has an integrated network monitoring and control system, which gives the user a very simple overview of the entire network. This DMS system has the following features:

### Graphical network overview

The view of the network topology allows a quick overview of all switches and end devices available in the network, such as IP cameras or servers, with details of the IP address, device type and name. Plans and maps can be stored as background images, allowing the user to quickly access certain network devices even without knowledge of the IP structure,

### Device search functions

This function allows access to a specific device even in larger networks. Newly added devices, e.g. a replaced IP camera, are displayed immediately and allow the user immediate access without requiring the IP address.

### Data traffic display

The data traffic per port can be graphically displayed over a time axis.

### Error handling and security

Network diagnostics between master switch and connected terminals.

Protection mechanisms such as data rate limitation provide effective protection against unwanted access.

IEEE802.3ah and IEEE802.1ag provide tools for structuring networks.

## System Notes

The switch supports PTP, precision time protocol according to IEEE1588 v2 and IEC 61588, a feature used in industrial automation, professional audio-video applications for audio-video bridging and telecommunications, among others.

# Technische Daten

|                |  |
|----------------|--|
| Copper Ports   | 8 x 10/100/1000TX with PoE, PoE+ and PoE++<br>Maximum PoE performance over all eight Ports: 480W<br>Each pair of ports (1-2 / 3-4 / 5-6 / 7-8) can supply a maximum of 120W PoE power.<br>Thus, 90W cannot be provided twice within a port pair. |
| Fiber Ports    | 2 x 100/1000, SFP<br><br>We recommend the use of our barox SFPs. We do not test or guarantee the compatibility of our devices with SFPs of other manufacturers.  |
| Console Port   | RS232, 115,2kBit/s, 8, N, 1, RJ45  |
| Supply Voltage | 54 VDC, redundant power supply possible, screw terminals<br>For PoE+ and PoE++ a minimum of 54VDC power supply is required.  |

|                       |   |
|-----------------------|---|
| Power Consumption     | Max. 15W (without PoE)  |
| MTBF                  | 25°C: 296'997h<br>75°C: 82'976h   |
| Operating Temperature | -40°C up to +75°C<br>Rel. humidity: 5% to 95%, non-condensing   |
| Power Loss            | 166 BTU/h   |
| Dimensions            | 135x62x130mm (HxWxL)  |
| Weight                | Gross weight [kg] 1.093<br>Net weight [kg] 0.853  |
| Test Standards        | EMV: IEC61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8 EMI: FCC Part 15 Class A, EN61000-3-2, -3-3, -6-4, EN55022, EN55011 free fall: IEC60068-2-32 shock: IEC60068-2-27 vibration: IEC60068-2-6  |
| Backplane             | 24 GBit/s   |
| MAC Table             | 8k  |
| Configuration         | Console, Webserver, Telnet, CLI, SNMP v1/v2/v3, TFTP, SSH, SSL, RMON, USB   |
| Port Settings         | Per Port: Port disable/enable, Auto negotiation 10/100/1000, Full- & halfduplex, Flow Control disable/enable, data rate   |
| Port Status Display   | Per Port: Data rate, Duplex, Link, Flow Control, Auto Negotiation, Trunk  |
| Layer3 Functions      | IPv4 and IPv6 Unicast: static routing   |
| VLAN                  | max. 64 VLAN ID & 802.1Q VLAN & Port Based  |
| Link Aggregation      | 802.3ad LACP, static Trunk, 12 groups of 16 ports each  |
| QoS                   | Class of Service IEEE 802.1p 8 priorities per port  |
| Security              | FCC Class A, CE, SSH v1 and v2, SSL for GUI<br>User authentication with private key   |
| Multicast             | IGMP v1, v2, v3 MVR, Multicast VLAN Registration  |
| Standards             | 802.3, 10Base-T Ethernet<br>802.3u, 100BaseTX and 100BaseFX Fast Ethernet<br>802.3ab, 1000Base-T<br>802.3z, 1000Base-X<br>802.3x, Flow Control und Back Pressure<br>802.1d, Spanning Tree<br>802.1w Rapid Spanning Tree<br>802.1s, Multiple Spanning Tree<br>ITU-TG.8032 / Y.1344 Ethernet Ring Protection Switch<br>802.3ad, Port Trunk mit LACP |

802.3af Power over Ethernet (15W)  
802.3at Power over Ethernet PoE+ (30W)  
802.3bt Power over Ethernet PoE++ (90W)  
802.1p, Class of Service  
802.1q, VLAN Tag  
802.1x, User Authentication (RADIUS)  
802.1ab LLDP  
ITU-T G.8031 Ethernet Linear Protection Switching  
ITU-T G.8032 Ethernet Ring Protection Switching  
IEEE 1588 V2, PTP

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