RY-LPITE-442XGME Industrial Switch with Management and PoE++ and 10Gbit/s uplink SFP Ports

# Product

## Abstract

Industrial PoE++ Gigabit IP switch, Layer 2/3 with 8 electrical ports 10/100/1000BaseTX, PoE++ and two ports 100/1000/10000 Base SFP, manageable

## Function

Ethernet switch with PoE++ for a redundant ring topology for DIN rail mounting.

## Particularities

Layer3, static and dynamic routing

No active fan

Continuous PoE monitoring

Remote restart of the ports possible, e.g. for IP cameras.

Due to the high data rate on the redundant backbone, this switch is particularly suitable for applications with high data throughputs, such as those in video networks.

The PoE user ports allow easy connection of PoE-protected devices.

Extensive management functions enable in-depth monitoringand control of the network.

# Special features for video networks

## Active monitoring of the camera

Cameras powered by the switch via PoE are constantly.

oversees. In the event of a camera failure, the switch automatically restarts the camera. If this fails, the switch sends an alarm message via SNMP.

## Active monitoring of PoE power supply

If, for example, a defective camera causes too much power.

from the switch, the switch alerts via SNMP.

## Active management of PoE performance

When the switch starts, each.

PoE ports can be switched on with a time delay to prevent overloading of the PoE power supplies.

## Active monitoring of the video network

Due to the Device Management System (DMS)

many helpful network monitoring features, eliminating the need for separate network management services.

## Active integration of the switch into video management systems

For the popular video management systems Milestone

and surveillance Video, there are SW modules that allow direct integration of the switch management and the DMS into this VMS.

## High data throughput for video networks

Extra high backplane performance for smooth video transmission at full port occupancy. Jumbo frames up to 9600 bytes are also supported at 100MBit/s.

# Security

## Certified authentication HTTPS

It must be possible to install an HTTPS private key for management access.

## User

The rights of the users must be freely adjustable on at least 15, freely adjustable levels.

## MAC Address Table

The MAC table must be managed automatically and manually. Static entries must be possible.

## ARP Table

The ARP must be able to be managed dynamically and statically. It must be possible to convert a dynamically created table to a static one.

## IP Source Guard

The device must be able to check the MAC address in combination with the IP address.

## Private VLANs

It must be possible to separate endpoints within a VLANS with private VLANs.

## ACL Access Control

It must be possible to set rules and conditions for incoming packets per port. The rules include protocols, IP ports, and address ranges. The rules must be able to work either according to the authorization or exclusion procedure.

## Specifications:

### Port List

Optical ports2 SFP bays for SFP (Mini GBiC) for the following interfaces:1000BaseSX (Gigabit Multimode)1000BaseLX (Gigabit Singlemode) distances up to 120km1000BaseLX bidi (Gigabit Singlemode only 1 fiber)100BaseFX Multimode100BaseFX singlemode

Electrical ports 8 x 10/100/1000BaseTX (RJ45) with PoE 802.3af/at/bt  
At least 2 ports must be able to deliver PoE++ with 90W at the same timeTotal up to 240 W PoE power.

ConsoleRS232, CLI, RJ45

BackplaneMin. 56Gbps

MAC Table16k

Configuration interfacesWeb server, Telnet, CLI, SNMP v1/v2/v3, TFTP, SSH, SSL, RMON, USB port

Port setting options All specifications per port: Port disable/enable, Auto negotiation 10/100/1000, Full- & half duplex, Flow Control disable/enable, data rate

Port Status MessagesAll information per port: Data Rate, Duplex, Link, Flow Control, Auto Negotiation, Trunk

VLANup to 64 VLAN ID and for 802.1Q VLAN and Port Based

Link Aggregation802.3ad LACP, static trunk, 12 groups of 16 ports each

QoS Class of Service IEEE 802.1p per port 8 priorities

Security FCC Class A, CE, ULSSH v1 and v2, SSL for GUI

Multicast IGMP v1, v2

Cooling The device works without an active fan

Supply voltage48-57VDC, redundant feed-in must be possible.

If the second supply drops, an alarm contact must be activated.

Power Max 15W (without PoE)

Operating temperature-40°C to 75°C

dimensions max. 17 0 x 70 x 130mm (HxWxL),

weight 1.15kg

### Standards the following standards must be.

802.3, 10Base-T Ethernet802.3u, 100BaseTX and 100BaseFX Fast Ethernet802.3ab, 1000Base-T802.3z, 1000Base-X802.3x, Flow Control and Back Pressure802.1d, Spanning Tree802.1w, Rapid Spanning Tree802.1s, Multiple Spanning TreeITU-TG.8032 / Y.1344 Ethernet Ring Protection Switch802.3ad, Port Trunk with LACP802.3af Power over Ethernet PoE802.3at Power over Ethernet PoE+802.3bt Power over Ethernet PoE++802.1p, Class of Service802.1q, VLAN Tag802.1x, User Authentication (RADIUS)802.1ab LLDPEMV: IEC61000-4-2, 4-3, 4-4, 4-5, 4-6, 4-8EMI: FCC Part 15 Class A, EN61000-3-2, -3-3, -6-4, EN55022, EN55011Free fall: IEC60068-2-32Shock: IEC60068-2-27Vibration: IEC60068-2-6Railway standard: EN0121-4, EN50155  
  
  
  
  
  
**Manufacturers**: barox Kommunikation