# RY-LGS23-10G, compact Layer-3 IP video switch with 2 UpLinks

## Product description

## Brief description

PoE Gigabit IP switch, layer 2/3 with 8 electrical ports 10/100/1000BaseTX and two combo ports (100/1000BaseTX / SFP slot), manageable

## Function

High quality manageable Layer 2 IP switch with 10 RJ45 jacks and two SFP bays.

## Features

High backplane performance

No active fan

Layer3, static routing

The two SFP bays allow a good mix of electrically and optically connected subscribers..

# Special features for video networks

## Jumbo frames also at 100 Mbit/s

Jumbo frames up to 9600Bytes are also supported at 100MBit/s.**.**

Security requirements

## Certified authentication HTTPS

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

## User management

It must be possible to freely set the rights of the users on at least 15, freely adjustable levels.

## MAC address table

It must be possible to manage the MAC table automatically and manually. Static entries must be possible.

## ARP table

It must be possible to manage the ARP dynamically and statically. It must be possible to convert a dynamically created table into a static one.

## IP Source Guard

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

## Private VLANs

It must be possible to separate end devices within a VLAN with private VLANs.

## ACL Access Control

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

# Technical data

## Port list

Optical ports 2 SFP bays for SFP (Mini GBIC) for the following interfaces:  
1000BaseSX (Gigabit Multimode)  
1000BaseLX (Gigabit Singlemode) distances up to 120km  
1000BaseLX bidi (Gigabit Singlemode only 1 fiber)  
100BaseFX multimode  
100BaseFX singlemode

Electrical ports 8 x 10/100/1000BaseTX (RJ45)  
2 x ports 100/1000BaseTX  
Console RS232, CLI, RJ45

### Hardware

Architecture Store and forward  
Switch performance/backplane 20GBit/s  
MAC addresses 8K  
Jumbo Frame 9kBytes

### Management

System configuration Console, Telnet, Web Browser, SNMPv1, v2c and v3

Port configuration Port disable/enable. Auto-negotiation 10/100/1000Mbps. Flow control disable/enable. Data rate control on each port. Max. Framesize, Power Control

Port status display per port speed duplex mode, link status, flow control status. Auto negotiation status, trunk status Display per port speed link status, flow control status. Auto negotiation status, trunk status.

VLAN 802.1Q Tagged Based VLAN ,up to 255 VLAN groups, Q-in-Q, Private VLAN

Link Aggregation IEEE 802.3ad LACP / Static Trunk, supports 18 groups of 8-port trunks or static trunk

QoS Traffic classification based, Strict priority and WRR, 4-level priority for switching, port number, 802.1p priority, - DS/TOS field in IP packet

IGMP snooping IGMP (v1/v2/v3) snooping, up to 256K multicast groups, IGMP querier mode support, MLD v1/v2, Proxy

Access Control List IP-Based ACL/MAC-Based ACL, 256 entries, VLAN ID, etc.

SNMP MIBs v1, v2c and v3 with fortraps

Standards IEEE 802.3 10Base-T  
IEEE 802.3u 100Base-TX/100BASE-FX  
IEEE 802.3z Gigabit SX/LX  
IEEE 802.3ab Gigabit 1000T  
IEEE 802.3x Flow Control and Back pressure  
IEEE 802.3ad Port trunk with LACP  
IEEE 802.1d Spanning tree protocol  
IEEE 802.1w Rapid spanning tree protocol  
IEEE 802.1s Multiple spanning tree protocol  
IEEE 802.1p Class of service  
IEEE 802.1Q VLAN tagging  
IEEE 802.1x Port Authentication Network Control  
IEEE 802.1ab LLDP  
IEEE 802.az Energy Efficient Ethernet

### Electrical and thermal values

Supply voltage 110 - 240VAC 50/60Hz

Power Max. 25W

Operating temperature: 0°C to +40°C

Storage temperature: -20°C to +70°C

Humidity: 20% to 95% rel. humidity non-condensing

## Manufacturer: barox Kommunikation