RY-LGSP23-28/370

19"-Switch with management, 10G Uplink and 24 Ports PoE+ and DMS

- 19"-Switch with PoE+ and 10G Uplink
- Copper ports: 24x10/100/1000 Mbit/s with PoE+
- Max. 370W for all ports
- Optical-fibre ports: 4x SFP 1/10Gbit/s
- with management, ring-capable, L3 possible. DMS
- Power supply 230VAC



Being developed for tasks with high data volume, this layer-2+ switch is suitable for example for video over IP and video streaming in connection with multicast as well. With its extensive management possibilities, it is also suitable for complex network structures. IP-cameras are supplied by PoE through the data cable. The high number and density of ports allow the use of this switch in projects with many cameras involved.

Video network special features

Video-friendly features
Extra high backplane performance for a smooth video transmission with all ports assigned. Support of Jumbo Frames up to 9600Bytes by 100MBit/s. MAC-address restriction ensures port security.

Active monitoring of the camera
Switch-powered cameras by PoE are constantly monitored. In case of a camera failure the switch automatically restarts the camera. If this is not possible the switch alarms by SNMP.

Active monitoring PoE-supply
The switch alarms by SNMP in case of sudden excessive power consumption by a defect camera for example.

Active management of the PoE-performance
The PoE-ports can be started by time intervals so as to prevent an overload of the PoE power supplies.

DMS

DMS (Device Management System)

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This switch disposes of an integrated network monitoring and control system which gives the user a good overview over the whole network in an easy way. This DMS-system has the following qualities:

Graphical network map
The network map gives a quick overview over all switches and terminal devices such as IP-cameras or servers indicating the IP-address, type of device and equipment. Plans and maps can be saved as background pictures and thus enable the user to access to certain devices without knowledge of the entire IP-structure.

Device search
This function enables the access to a specific device also in large networks. Recently added devices, as per example a new IP-camera, are immediately displayed and thus enable a direct access.

Data traffic display
Graphical display of data traffic per port in a time axis.

Error handling and security
Network diagnosis between master switch and terminal devices. Protective mechanisms such as data flow restriction guarantee an effective protection against inadvertent access. IEEE802.3ah and IEEE802.1ag provide tools for structuring of networks.

Technical data

General properties

supply voltage	100-240 VAC, 50-60Hz
power consumption	Max. 40W (without PoE) / 255/407W (with PoE)
MTBF	25°C: 298'628h 40°C: 186'038h 50°C: 113'327h
operating temperature	0°C to 40°C
dimensions	RY-LGSP23-28: 442 x 211 x 44mm (Width x Depth x Height) RY-LGSP23-28/370: 442 x 211 x 44mm (Width x Depth x Height)

interfaces

copper ports	24 x 10/100/1000TX, RJ45, PoE+ 802.3 af/at Maximum PoE performance for all ports: 370W
optical fibre ports	4 x 1000/10G SFP/SFP+ We recommend the use of our barox SFPs. We do not test or guarantee the compatibility of our devices with SFPs of other manufacturers.

network properties

backplane	128GBit/s
MAC-table	32k
configuration	Konsole, Web GUI, SNMPv1, v2c und v3
PoE Management	
port settings	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 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 -8021p priority -DS/TOS field in IP Packet
security	SSH v1 and v2. SSL, 802.1X RADIUS, port security, ACL with MAC, IP, Multicast etc.
multicast	IGMP v1/v2/v3 snooping, up to 1024 multicast groups, Source-Specific Multicast, IGMP Proxy
topology	STP, RSTP, MSTP

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 802.3af/at Power over Ethernet
	IEEE 802.az Energy Efficient Ethernet

Product variants

	RY-LGSP23-28/370	Switch with 370W for PoE

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