RY-GSP17-10 en

19" switch with WebSmart management and 8 ports with PoE +

- 19" switch with PoE
- Copper ports: 8 x 10/100/1000 with PoE+

- Max. 130W for all ports
- Fibre optic ports: 2 x SFP 100/1000
- Websmart Management, ring-capable
- Fanless
- Power supply 230VAC

This video-optimised switch was specially developed for applications with high data loads, such as video over IP, video streaming also in connection with multicast. The PoE allows IP cameras to be fed via the data cable. The compact design and the reduced number of ports make this switch ideal for smaller systems or as a remote unit in a larger network. With the extensive management options, even complex network requirements can be met.

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)

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	100-240VAC, 50-60Hz
power consumption	Max. 10W (ohne PoE) / 150W (mit PoE)
MTBF	25°C: 589'202h 50°C: 248'902h
operating temperature	0°C bis 50°C
dimensions	220 x 242 x 44mm (BxTxH)
weight	Nettogewicht: 2,9kg

interfaces

copper ports	8 x 10/100/1000TX, with PoE+, RJ45 Maximum PoE power for all PoE ports: 130W
optical fibre ports	2 x 100/1000, 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.

barox Kommunikation AG
Im Grund 15
CH-5405 Baden-Dättwil
T.: +41 56 210 45 20

www.barox.ch
www.barox.de
www.barox.at

barox Kommunikation AG
Weiler Strasse 7
D-79540 Lörrach
T.: +49 7621 5500 281

network properties

management	HTTP/HTTPS, SSH v1 & v2, Telnet Client, IPv6 Management SNMP v1, v2c, v3 supports traps and USM DHCP Client DHCP Server Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms and events) for improved traffic management, monitoring and analysis
backplane	20GBit/s
MAC-table	8k
configuration	Web GUI, SNMPv1, v2c, 3, no console port
PoE Management	Port Configuration, port-by-port setting of PoE values. PoE Scheduling, supports PoE scheduling per port to switch PoE devices (PDs) on and off. Auto-checking, checks the connection status of the PDs. PD is restarted if it does not report. Power Delay, the individual ports can be started up with a time delay to prevent overload.
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.
layer3 functions	No layer 3 functions
VLAN	Port based VLAN Tagged based VLAN, IEEE802.1Q Protocol based VLAN IP subnet-based VLAN Private VLAN Edge (PVE) MAC-based VLAN Q-in-Q (double tag) VLAN Voice VLAN
link aggregation	IEEE 802.3ad LACP Static Trunk
QoS	Up to 8 Hardware Queues Classification: Port based, 802.1p VLAN priority based, precedence / DSCP based, DiffSer, Classification and re-marking Rate Limiting: Ingress Policer, Egress shaping and rate control, Per Port

security	SSH, SSL
	802.1X RADIUS/TACACS, authentication, authorization and accounting, MD5
	ACL mit MAC, IP, Multicast, Storm control u.v.a.
	PVE provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
	IP Source Guard
	DHCP Sourceguard
	Loop protection
multicast	IGMP v1/v2/v3 snooping, bis 512 Multicast Gruppen, Source-Specific Multicast, IGMP Proxy
topology	STP, Standard Spanning Tree, IEEE802.1d
	RSTP, Rapid Spanning Tree, IEEE802.1w
	MSTP, Multiple Spanning Tree, IEEE802.1s
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 ofservice
	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-GSP17-10	incl. 19" mounting bracket, see below
	RY-19" mounting	Included in delivery

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