



RY-GSP22-26/370

- 19" Switch with PoE+ with DMS
- 370W PoE
- Copper ports: 24x10/100/1000TX with PoE+
- Optical fibre ports: 4x100/1000SFP
- with management, ring capable, layer 2, DMS
- Power supply 230VAC

This video-optimised switch was developed specifically for applications with high data loads, such as video over IP and video streaming. PoE allows IP cameras to be powered via the data cable. Due to its reduced range of functions, the switch is particularly suitable for use in smaller systems.

Product information

Brief description

19"-L2 Switch with management, 24 ports PoE+, DMS

Special Feature for Video Networks

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.

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.

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.

Special Features

PoE: PoE adjustable per port PoE can be activated time-delayed per port PoE per Port: Turn on and turn off can be adjusted by means of a time table Link status control, reboot in case of non-reply of PoE-sink

System Notes

The switch does not have a routing function, even between VLANs. It is also not suitable for applications with multicast. In such cases, we recommend the devices from the 23, 28 and 38 series.

Technical data

Copper Ports	24 x 10/100/1000TX, RJ45, thereof 24 with PoE+ 802.3af/at Maximum PoE for all ports: 370W
Fiber Ports	4 x 100/1000SFP 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, RJ45
Supply Voltage	100-240VAC, 50-60Hz
Power Consumption	Max. 40W (without PoE) / 255W (with PoE 185W) / 450W (with PoE 370W)
MTBF	25°C: 352'063h 50°C: 129'960h
Operating temperature	0°C up to 40°C
Power Loss	225 BTU/h

Dimensions	442 x 211 x 44mm (BxTxH)
Weight	Gross weight: 4.1 kg Net weight: 3.4 kg
Backplane	56Gbit/s
MAC Table	8k
Configuration	Console, Web GUI, SNMPv1, v2c und v3 (USM)
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	Display per port: Speed link status, flow control status. Auto negotiation status, trunk status.
VLAN	VLAN based on: 802.1Q Tagged, Port, Protocol, IP subnet, Privat (PVE), MAC Max. 4k VLANs Q-in-Q (double tag) private VLAN Voice VLAN GARP VLAN registration protocol (option)
Link Aggregation	IEEE 802.3ad LACP Static trunk
QoS	Supports 8 hardware queues Strict priority and weighted round-robin (WRR) Queue assignment based on DSCP and class of service
Security	SSH v1 und v2 SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch 802.1X RADIUS Port Security ACL mit MAC, IP, MULTicast u.v.a.
Multicast	ATTENTION, the processor of this switch is not suitable for multicast applications in connection with video streams. In such cases, we recommend using the 23-, 28- and 38- series switches. However, the switch basically supports the following functions: 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 Rapidspanning tree protocol
IEEE 802.1s Multiple spanning tree protocol
IEEE 802.1p Classofservice
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
