# RY-LGSPTR23-26

19"-L2/L3 switch with management, 24 Ports PoE ++, redundant power supply up to 920W

- 19" L2/L3 switch with PoE++ 802.3af/at/bt 920W
- Copper ports: 26 x 10/100/1000TX with PoE++
- Optical fibre ports: 2 x 100/1000Mbit/s (Combo)
- With management, ring-capable, L3 fonctions, DMS
- Power supply 230VAC, redundant



Being developed for tasks with high data volume, this layer-2/3 switch with L3-functions is suitable for example for video over IP and video streaming in connection with multicast as well. By means of PoE++ IP-cameras can be supplied through a data cable. With its extensive management possibilities, it is also suitable for complex network structures.

## 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

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. 40W (without PoE)<br>1'000W (with PoE 920W) with single or redundant supply<br>2'000W (with PoE 2 x 920W) with redundant supply |
| MTBF | 25°C: 182'061h<br>50°C: 66'683h |
| operating temperature | 0°C to 40°C |
| dissipation loss | 136BTU, without taking PoE power into account.<br>340BTU with maximum PoE power output of 920W |
| dimensions | 442 x 211 x 44mm (Width x Depth x Height) |

## interfaces

| | |
|---|---|
| copper ports | 26 x 10/100/1000TX, 45RJ, therefrom 24 with PoE++ 802.3af/at/bt<br>Maximum PoE for all ports: 920W |
| optical fibre ports | 2 x 100/1000, SFP (Combo)<br>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, 115,2kBit/s, 8, N, 1, RJ45 |

## network properties

| | |
|---|---|
| backplane | 52GBit/s |
| MAC-table | 8k |
| configuration | Console, Web GUI, SNMPv1, v2c and v3 |
| PoE Management | |
| port settings | Port disable/enable. Auto-negotiation 10/100/1000Mbps. Flow Control disable/enable. Data rate control on every port. Max. Framesize, Power Control |
| port status | Disply as per port of speed link status, flow control. Auto negotiation status, trunk status. |
| layer3 functions | IPv4 and IPv6 Unicast: static routing |
| 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 goups of 8-port trunks or static trunk |
| QoS | Traffic classification based, strict priority and WRR, 4-level priority for switching<br>- Port number<br>- 802.1p priority<br>- 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<br>IEEE 802.3u 100Base-TX/100BASE-FX<br>IEEE 802.3z Gigabit SX/LX<br>IEEE 802.3ab Gigabit 1000T<br>IEEE 802.3x Flow Control and Back pressure<br>IEEE 802.3ad Port trunk with LACP<br>IEEE 802.1d Spanning tree protocol<br>IEEE 802.1w Rapid spanning tree protocol<br>IEEE 802.1s Multiple spanning tree protocol<br>IEEE 802.1p Class of service<br>IEEE 802.1Q VLAN Tagging<br>IEEE 802.1x Port Authentication Network Control<br>IEEE 802.1ab LLDP<br>IEEE 802.3af/at/bt Power over Ethernet<br>IEEE 802.az Energy Efficient Ethernet |

## Product variants

| | | |
|---|---|---|
| | **RY-LGSPTR23-26** | Switch with 1'000W for PoE++<br>one slot 920W included |
| | **RY-PS-TR920** | slot with 920W |

*Version 14.03.2023, Changes without notice*