

## RY-LGSP28-52/740

19"-Switch with management, 48 ports PoE+, DMS

- 19" Switch with PoE+ with DMS
- Maximum PoE power 740W
- Copper ports: 48x 10/100/1000Mbit/s PoE+
- Optical-fibre ports: 4xSFP 1/10Gbit/s
- with management, ring-capable, fonctions L3, DMS
- Power supply 230VAC



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. 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

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#### 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

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#### 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**

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### **General properties**

supply voltage	100-240VAC, 50-60Hz
power consumption	Max. 80W (without PoE) / 850W (with PoE)
operating temperature	0°C up to 50°C
dimensions	442 x 375 x 44mm (WxDxH)
weight	5,7kg

### **interfaces**

copper ports	48 x 10/100/1000TX, RJ45, PoE+ 802.3af/at Maximum PoE for all ports: 740W
optical fibre ports	4 x 1/10G SFP/SFP+
console port	RJ45



## network properties

backplane	176 GBit/s
MAC-table	8k
configuration	Console, Web GUI, SNMPv1, v2c and v3
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	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, unterstützt 18 Gruppen von 8-Port trunks oder static trunk
QoS	Traffic classification based, Strict priority and WRR, 4-level priority for switching  - Port Nummer  - 802.1p priority  - DS/TOS field in IP Packet
security	SSH v1 and v2, SSL, 802.1X RADIUS, Port Security, ACL with MAC, IP, Multicast etc. User authentication with private key
multicast	IGMP v1/v2/v3 snooping, up to 1024 multicast groups, Source-Specific Multicast, IGMP Proxy
topology	STP, RSTP, MSTP, ERPS, ELPS



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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  
IEEE1588v2 PTP, Precision Time Protocol  
ITU-T G.8032v2, ERPS, Ethernet Ring Protection Switching  
ITU-T G.8032v1, ELPS, Ethernet Linear Protection Switching



## Product variants

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**RY-LGSP28-52**

See separate data sheet  
Switch with 370W for PoE

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