

Switches made for video

Product overview



We make video networks efficient and secure

barox is a manufacturer of innovative switches, media converters and IP extenders. Our products are specially designed to meet the demanding requirements of video and security networks.



Advanced Power over Ethernet (PoE) management

With barox switches, you can monitor and manage the requirements of your video network and connected devices.



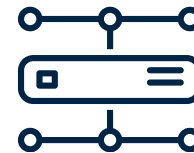
Maintaining the PoE power supply

Thanks to our advanced 'Non-stop PoE' solution, the Power over Ethernet (PoE) is uninterrupted during firmware updates or routine maintenance. This keeps the downtime of your video recordings to an absolute minimum.



Active monitoring of the camera

Benefit from continuous, active monitoring of all cameras in your video network. In the event of a camera or powered device (PD) going offline, the switch automatically initiates a re-boot and sends an alert via Simple Network Management Protocol (SNMP).



Active monitoring of the PoE supply

If, for example, a defective camera in your video network places an increased power demand on the switch, the 'PoE PD over current' alert advises operators of a potential device malfunction via Simple Network Management Protocol (SNMP).



Active management of PoE power

When booting up the switches, our advanced technology enables individual PoE ports to be started with a time delay. This not only ensures smooth commissioning, but also achieves intelligent load distribution. In this way, you effectively avoid overloading the PoE supply.

Integrated cyber security

barox offers powerful cyber security functions to reliably protect your video network from attacks and outages.

Your network security is our top priority. That's why all our RY switches have powerful features for first-class protection of video networks against potential cyber attacks. The integrated cyber security features guarantee video network installers and operators the confidence to withstand cyber attacks, and avoid costly downtime.

With the ability to secure switch management with certificate-based and TLS encryption, we ensure that only authorised computers and servers have access to switch management. In addition, our switches are equipped with other powerful cyber security functions, including port security, ACL lists, compatibility with RADIUS servers and control over multiple user accesses. Other 'higher level' security features include 'IP Source-guarding', which gives increased protection over and above standard MAC-locking. The ability to block protocols that are used to take data 'out' of the network, i.e Telnet, and prevent 'hostile takeovers' via DHCP, makes barox the ultimate choice for securing your video network.



User-friendly solutions

By integrating barox switch management into the VMS or PSIM system, you can reduce support costs and maximise up-time of your video network.



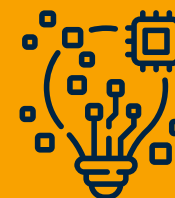
Active integration with VMS and PSIM systems.

Benefit from seamless integration between our switches and your preferred VMS or PSIM system. Our switches are already integrated into the most popular VMS and PSIM systems and offer numerous advantages, such as clear and simplified network monitoring and diagnostic capability. The ability to access all features via a 'single pane of glass' enables you to make considerable support cost savings and helps to avoid unnecessary on-site visits by maintenance or security services.



Active monitoring and management of the video network via the DMS







Simplify your network management with our integrated and licence-free Device Management System (DMS). Use the many useful DMS functions, such as the live overview of the network topology, and monitor and configure your devices effortlessly in one central location.



ONVIF compatibility





All our RY switches are designed to interact seamlessly with ONVIF-compliant devices. This ensures smooth integration and opens up a world of possibilities.

Industrial Media Converters and PoE-Injectors

		Ports TX	Ports PoE+	Ports PoE++	Ports SFP	Characteristics
	PC-MC101-E PC-MC101-GE	1×10/100TX 1×10/100/1000TX	0 0	0 0	1×100FX or SFP 1×1000SFP	Very small size -40°C to +75°C
	PC-PMC102-E ¹ PC-HPMC102-E ¹	2×10/100TX 2×10/100TX	2 0	0 1×60 W	1×100FX 1×100FX	Small size -40°C to +75°C
	PC-PMC101-GME ¹	1×10/100/1000TX	1	0	1×100/1000SFP	Very small size -40°C to +75°C
	PC-PMC101-GE ¹ PC-HPMC101-GE ¹ PC-BTPMC101-GE ² PC-BTPMC101-10GE ²	1×10/100/1000TX 1×10/100/1000TX 1×10/100/1000TX 1×1G/10G TX	1 0 0 0	0 1×60 W 1×90 W* 1×90 W*	1×100/1000SFP 1×100/1000SFP 1×100/1000SFP 1×1G/10G SFP/SFP+	Small size -40°C to +75°C PoE++ 10 G Ethernet
	PD-BTPMC102M-GE ²	2×10/100/1000TX	0	2×90 W* (max. 120 W over both Ports)	1×100/1000SFP	Small size -40°C to +75°C managed
	PC-INJ-30W ¹ PC-INJ-60W ¹ PC-INJ-95BT ²	1×10/100/1000TX 1×10/100/1000TX 1×10/100/1000TX	1 0 0	0 1×60 W 1×90 W*	0 0 0	Small size -40°C to +75°C






*Some non-standard PoE variants are supported. Please ask for more information. | ¹IEEE802.3af/at | ²IEEE802.3af/at/bt

Industrial Switches for Video

	Ports 10/100/1000TX	Ports PoE+	Ports PoE++	Ports 100/1000 SFP	Max. PoE-Power	Characteristics
 <p> PC-PIGE502-GBTE ¹ PC-PIGE502-GBTE-B ¹ PC-PIGE500-GBTE ¹ PC-PITE502-GBTE ¹ </p>	5 5 5 4	4 4 4 0	0 0 0 4×60 W	2 2 0 2	120 W 120 W 120 W 240 W	Small size -40°C to +75°C B-type supply from 12VDC
 <p> LT-LPIGE-802GBTME ¹ LT-LPIGE-804GBTME ¹ </p>	8 8	8 8	0 0	2 4	240 W 240 W	Small size -40°C to +75°C Layer 2/3 management
 <p> RY-LPIGE-602GBTME ¹ RY-LPIGE-804GBTME ¹ RY-LPITE-804GBTME ¹ RY-LPITE-802GBTME ² </p>	6 8 8 8	6 8 0 0	0 0 4×60 W 8	2 4 4 2	120 W 240 W 240 W 480 W	-40°C to +75°C Layer 2/3 management DMS
 <p>LT-LPITE-402GBTME ²</p>	4	0	4	2	320 W	Small size Layer 2/3 Management PoE up to 90W per Port

* Some non-standard PoE variants are supported. Please ask for more information. | ¹ IEEE802.3af/at | ² IEEE802.3af/at/bt







19"- Switches for Video Networks

		Ports 10/100/1000TX	Ports PoE+	Ports PoE++	Ports 100/1000 SFP	Ports 10GSFP+	Max. PoE-Power	Characteristics
	RY-GSP17-10 ¹	8	8	0	2	0	130 W	Fanless / Non-Stop-PoE / L2 / DMS
	RY-LGSP23-10G ¹	10	8	0	2	0	130 W	Fanless / L3 / static routing / DMS
	RY-LGSP23-26 ¹	26	24	0	2	0	185 W	L3 / static routing / DMS
	RY-LGSP23-26/370 ¹	26	24		2	0	370 W	
	RY-LGSO25-28	4	0		24	4	0 W	4×10G SFP+ / L3 / static routing / DMS
	RY-LGSO25-24	4	0		24	0	0 W	
	RY-LGSPTR23-26 ²	26	0	24	2	0	920 W	Redundant supply / max. 1840 W / 24×PoE++ / DMS

*Some non-standard PoE variants are supported. Please ask for more information. | ¹ IEEE802.3af/at | ² IEEE802.3af/at/bt

Switches for Video (28 and 38 series)

Higher capability protocol support, security features and bandwidth

		Ports 10 / 100 / 1000TX	Ports 1G / 2,5G / 5G / 10G 8x SFP/SFP+	Ports PoE+	Ports 1G / 10G / SFP / SFP+	Max. PoE- Power	Characteristics
	RY-LGSP28-10 ¹	8	–	8	2	250 W	Non-Stop-PoE / new GUI / L3 / static routing / DMS
	RY-LGSP38-28 ¹	24	–	24	4	370 W	Non-Stop-PoE / new GUI / L3 / dynamic routing / DMS
	RY-LGSP38-52/740 ¹	48	–	48	4	740 W	Non-Stop-PoE new GUI / L3 / dynamic routing / DMS
	RY-LGSPTR28-52 ¹	48	–	48	4	920 W	Redundant power supply / Non-Stop-PoE / new GUI / L3 / max. 1840 W / DMS
	RY-LPITE-442XGME ²	8	–	4 × PoE+ 4 × PoE++	2	360 W	Fanless / redundant / Non-Stop-PoE / new GUI / L3 / dynamic routing / DMS
	RY-LGSO38-10	2 × 10G	08	–	–	–	OSPFv2 / v3 and RIP v1 / v2 / new GUI / dynamic routing / DMS

*Some non-standard PoE variants are supported. Please ask for more information. | ¹IEEE802.3af/at | ²IEEE802.3af/at/bt

10G Switches for DIN rail and 19" mounting

Increased data throughput

The backplane performance of up to 176Gbit/s plus two to four 10G uplink ports, allows full use of all ports with the latest generation of 4&8k cameras and beyond.

Non-Stop-PoE

The new Non-Stop-PoE capability continues to provide power to cameras even during switch updates and routine admin tasks, dramatically reducing downtime on the video feeds and the risk of loss of valuable camera footage in CNI and High Security installations.

High PoE power

Compliant with all current PoE standards, IEEE802.3af / at / bt, as well as some non-standard PoE variants, the available PoE power of the switches and converters takes into account the increasing power demands of the latest advanced PoE cameras. With switch options offering up to 920 W and the capability to increase port output up to 120 W, PoE functionality stands barox apart from other manufacturers.

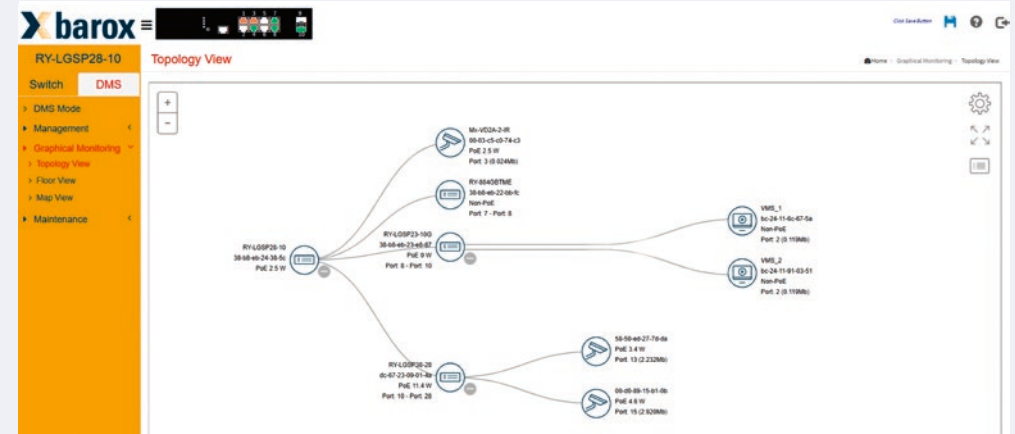
User-friendly GUI

The improved, 'easy-to-use' user interface allows simplistic configuration and the management of the switches with significantly fewer clicks.

Increased switch and network security

In addition to secure communication with the switch management, the actual data traffic can now also be monitored and restricted. The switches provide extensive filtering options for this purpose and gives the user the option of preventing undesirable and sometimes dangerous protocols and functions in the network. The Series 38 switches and the RY-LPITE-442XGME also support dynamic routing using the OSPF v2 / v3 protocol.

Device Management System (DMS)



With the DMS all devices in the network can be easily monitored and displayed. Some of the most important functions of the DMS are:

- Automatic representation of network topology and IP addresses
- Automatic detection of the device types, such as IP camera or server
- Plug-ins for integrations and alarm management within VMS/PSIM systems such as Milestone, Genetec, Siemens Siveillance™ Video, Geutebrück, Mobotix, Velocity Vision, Advancis, Genesys by ISM, Network Optix and MAKU

Cameras and devices can be rebooted from directly within the VMS interface.

For example, if a new camera is inserted into the network, it is recognised by the DMS and displayed along with its IP address. This eliminates the time-consuming task of determining the IP address of a new camera.

The DMS can measure and display the data traffic of a link over time. This function is very helpful for troubleshooting in the network.

The NEW DMS Controller allows you to operate DMS on a standalone PC/device giving you increased benefits such as global firmware updates, bandwidth and PoE monitoring as well as exportable device list and device logs.

Customer-focused technical support

We attach great importance to outstanding customer care. That's why we consider personal contact to be the best option for superior technical support, without the use of a faceless ticketing system or chatbots. This allows us to focus on our customers' needs. Our dedicated multilingual experts are there for you personally, to answer your queries competently by phone, email or, if necessary, directly on site.





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