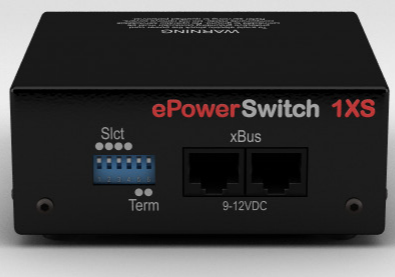
Neol
IT-Solutions

Datasheet

ePowerSwitch 1XS

The ePowerSwitch 1XS has only one power outlet and allows the selective integration of single devices. The xBus interface always enables further cascading.



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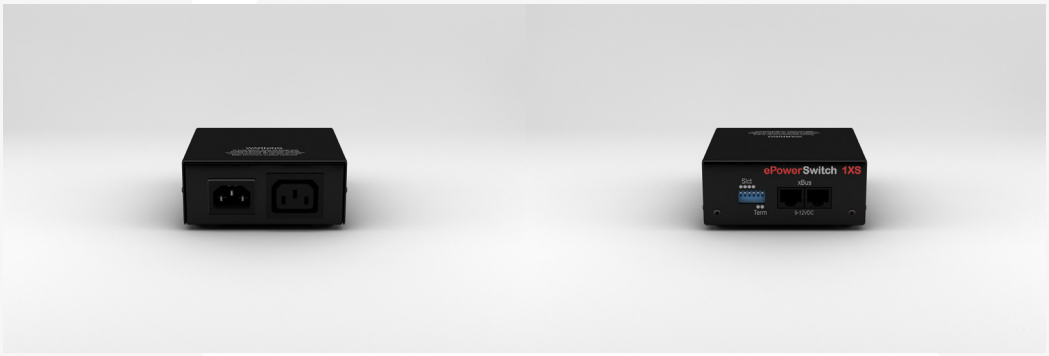
Art.-No.
EPS-1XS-EU
EPS-1XS-UK
EPS-1XS-CH

Description

The ePowerSwitch 1XS offers numerous expansion options for all ePowerSwitch master devices and the VizioGuard system. 1 IEC320 power outlet is available which can be switched individually or as a group.

The xBus connection (standard RJ45) ensures the extension (ePowerSwitch 8XS, more ePowerSwitch 1XS, etc.) of the system up to 16 IEC320 power outlets. With the DIP switch on the front easy configuration and termination of a cascade is made possible.

The device and the power outlets are operated by a ePowerSwitch Master or through a KVM switch.



Rear connection features

- 1 IEC320 input
- 1 IEC320 output

Front connection features

- xBus connection
- DIP switch for configuration and termination of a cascade

Power Distribution

Each network switch can be switched on/off and restarted via IP or RS232 interface. This can be done by the web interface, a KVM switch, SNMP, or any serial interface. They can also be switched single or as individually created group of outlets – including connected expansion units. The sequential on and off switching of each outlet prevents resulting peak loads within the IT environment.

The power outlets are equipped with extremely robust HiAmp relay for high inrush currents. Individual delays (1-255 seconds when you next switch, 1-3600 seconds when restarting) can be configured for the switching process.

Monitoring

Device Monitoring

The monitoring of connected devices is realized through the use of a ePowerSwitch Master. It can monitor up to 40 IP addresses with ping or scan commands and send a message (SNMP trap, e-mail, syslog) in case of a crash automatically. If the monitored IP devices are powered by the ePowerSwitch they can be automatically restarted. The combination of the Neol ePowerSwitch and VizioGuard products is possible.

Selective integrations of individual devices are possible with the ePowerSwitch 1XS. Further devices can be monitored additionally (eg. a server in a remote infrastructure) when added into the control this way.

Environmental monitoring

The ePowerSwitch 1XS mainly allows the cascading of power outlets as a Satellite system. Up to 4 sensors and detectors can be connected using standard CAT cable, if it is connected to a master device. The transmission of signals is fully digital and the maximum range is up to 200m. The use of an existing cable infrastructure is easily assured. The inputs can be used in definable rules to trigger automatically any appropriate emergency actions.

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Sensors and detectors can be flexibly combined and placed at any desired location in the surveillance area. For example, the optimization of a larger demilitarized zone (eg. hotspots in the air-conditioned area) is possible with only a little effort.

Management

The management and control of the device using a connected Master system is quite simple through the web browser. Moreover, it is possible to send switching commands via a connected KVM switch or a terminal console.

Authentication

All current ePowerSwitch devices use a nonce (cryptographic nonce) and a hash function for authentication so the access can not be reconstructed or manipulated. To support fully encrypted transmission of data corresponding devices are available (eg. ePowerSwitch 8XM or VizioGuard).

User accounts

The administrator can create up to 40 user accounts with different rights via the web interface. Access to the webserver is protected by 32-character user names and passwords. In addition, up to 40 users may simultaneously access the ePowerSwitch and all connected xBus peripherals.

Grouping of power outlets

The grouping of power outlets allows a server with redundant power supplies or multiple devices to be turned on/off with a command sent through a web browser or by SNMP. With the ePowerSwitch 1XS it is possible to create any groups. Connected expansion devices (for example, additional 1XS) are captured and managed too. The number of power outlets within the group is arbitrary.

Programmable rules

Up to 32 rules can be configured to monitor analog values and digital inputs. Pre-programmed actions will be triggered on alarm state which will switch eg. relay or sockets. Optional e-mails, SNMP traps or syslog messages can be sent.

Timer and scheduler

The device offers the possibility to automatically operate the power outlets by a timer and/or a scheduler function. Individual power poweroutlets but also groups will be turned on/off at defined times. It is also possible to automatically send e-mail, SNMP traps and syslog messages with the scheduler. By using a Internet connection the option to trigger an action on remote ePowerSwitch devices is given.

Designations

Up to 32 characters long names can be set to all devices and sensors connected. This unique identification simplifies the programming of rules, groups and the associated actions.

Online help

An intuitive interface and context-sensitive online help allow administrators to quickly enable various and powerful features of the system. Detailed instructions and explanations are listed in the operating instructions.

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Features at a glance

- 1 current input with 10A
- 1 Power switch with 10A
- Cascadable
- Control of the power outlets takes place using a ePowerSwitch Master or the VizioGuard system
- Special high-current relay (120A / 20ms).
- Programmable time intervals for a restart
- Only 1U of rack space required

Supported peripherals

Up to 4 peripheral devices can be connected to the ePowerSwitch 1XS directly.

Sensors
- Temperature sensor (T-Sensor)
- Temperature and humidity sensor (TRH-Sensor)
- Temperature and ambient light sensor (TL-Sensor)
- Temperature and proximity sensor (TP-Sensor)
- Temperature sensor tiny (T-Sensor Tiny)

Detectors
- Optical liquid detector (LIQ DET)
- Optical smoke detector (SMOKE DET)
- Movement detector (MOVE DET)
- Magnetic reed contact (MAGNETIC CON)

Interfaces
- Dual 0-10V with temperature sensor (0-10 T-Sensor)
- Dual 4-20mA with temperature sensor (4-20 T-Sensor)
- PT100 for platinum measuring resistor (PT100 T-Sensor)

Expansion & Cascade
- 1 power outlet (ePowerSwitch 1XS)
- 8 power outlets (ePowerSwitch 8XS)
- 8 power outlets with 2 x 16A inputs and voltage monitoring (8XS /32)

I/O-Modules
- 8-way terminal with dry input contacts (Digital input module)
- 8-way terminal with dry output contacts (Digital output module)
- Push button with dual action (Push button)

Current probe
- For 1 output (CP IEC)

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Technical data

Power input	1 x IEC320 EN60320 C14 (M) 10A Nominal voltage: 230V / 50Hz Max. current: 10A
Power output	8 x IEC320 EN60320 C13 (F) Nominal voltage: 230V / 50Hz Max. current/outlet: 10A
Termination	6-pol. DIP-Switch
Connection Bus	RS485, RJ45
LED	Power, Sockets
Operating temperature	0°C to +40°C
Operating humidity	10% to 80%
Dimensions (W x H x D)	100 x 42 x 95
Weight	0.4 kg
Approvals	CE, EN55022 & EN55024, RoHS
Guarantee	2 years repair/replace

Package contents

- 1 EPS 1XS-XX (where XX is the specification of the power plug)
- 1 power cord, 1,80 meters IEC-320-C13 / EU, CH or UK standard - EU = SCHUKO/Europe, CH = Swiss, UK = United Kingdom
- 1 Network cable
- 1 serial cable (SUB-D9 male/female) 1,80 meters
- 1 CD-ROM with english manual

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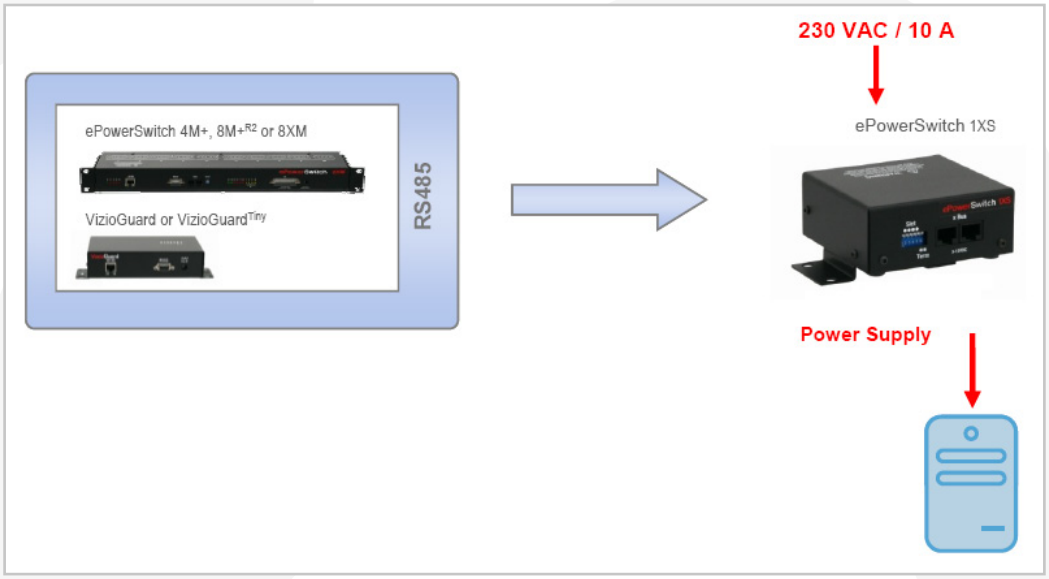
Application example



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