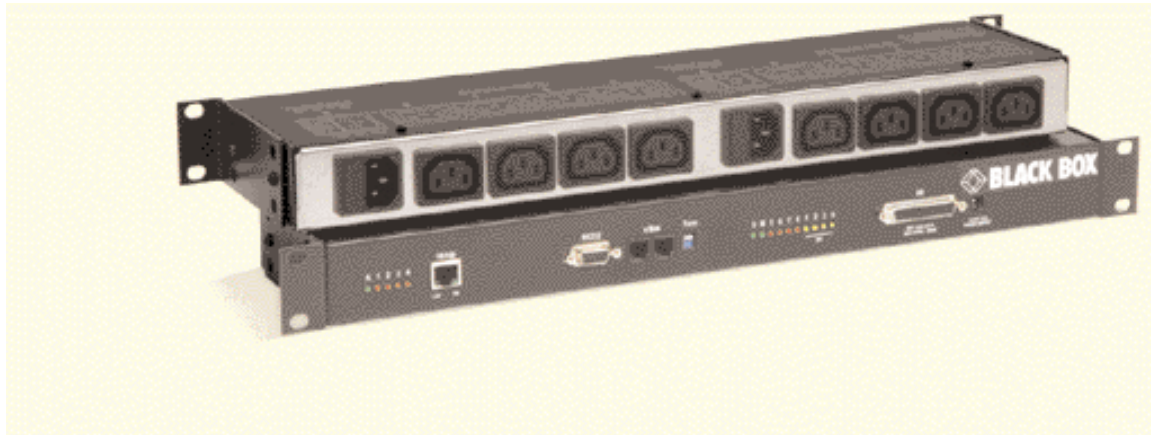# BLACK BOX®
NETWORK SERVICES

Secure Power Switch

Key Features

▶ Secure IP power control with SSL encryption

▶ 8 devices per unit, max. 136 devices in a system

▶ Dual input, twin output control for redundant PSUs

▶ PING and port scan-based auto-reboot

Product description
The new Secure Power Switch is the secure solution for numerous applications where you need to remotely control power. It offers HTTPS control from its built-in webserver and 10/100 Ethernet connection, as well as serial through the RS232/V.24 or RS485 ports (only for Satellite units). The on/off/reboot functions are ideal for restarting crashed servers or networking equipment (routers, switches) that no longer respond, as well as remotely controlling the power of virtually any device.

The Secure Power Switch is a scalable system that can be expanded up to 136 ports (1 Master and 16 Satellites). Each unit supports a maximum load of 2x10A through its 2 inputs. The outputs can be controlled in pairs (or higher amounts) – ideal for equipment using redundant power supplies.

Installation and set-up in a few minutes
You can do the network configuration of the Master unit over your LAN using the dedicated Windows Finder tool, or serially over the RS232 port with a terminal emulation software. It is very fast and

easy. You can custom label each unit and assign a suggestive name to each port. The configuration is saved in a nonvolatile internal memory.

Plenty of control options
You can control each port individually, or assign it to one or more groups for simultaneous command. A group can contain different ports on different units that are interconnected. The switch enables you to monitor IP hosts, either using the ICMP PING protocol or a port scan. If the queried device doesn't respond after a predefined amount of attempts or wait time, the switch can reboot the appropriate output. You can connect external temperature and humidity sensors to the power switch, and the administrator can define different rules for turning on or off certain outputs based on the measured environmental changes. The switch supports a total of 255 rules per system. Each port can turn on and off scheduled events, based on the built-in real time clock, which can be periodically synchronised with up to two different (one primary and one backup) external time references over the SNTP protocol. You can also use eight dry contact inputs

to create power control rules based on events and alerts generated by third-party products compatible with the dry contact electrical interface. Four dry-contact outputs can control external appliances based on changes on the power status.

For applications where no HTTPS control is required, use one or more cascaded satellites to build a system with up to 128 outputs, which can be controlled over RS-232/V.24 or RS-485 terminal connection with a PC, KVM switch or console server.

Secure as a Swiss bank
For maximum security, the switch can only be accessed thorugh HTTPS, an SSL-encrypted IP connection. An administrator account is built-in and up to 255 users can be additionally defined, each having a password and a list of allowed outputs or groups for remote control. Each power-related event is logged internally and can also be sent simultaneously to an external syslog server.
The master unit has triple redundancy for the power supply system of the built-in electronics.

Specifications

Connections

Inputs: (2) IEC320 C13
Outputs: (8) IEC320 C14
Serial: (1) DB9 F, RS232/V.34
Cascade: (2) RJ11 F, RS485
Network: PSE518MA only: (1) RJ45 F 10BASE-T/100BASE-TX autosense
Other: PSE518MA only: (1) DB25 F with 8 inputs and 4 outputs, max. 24 VDC / 20 mA, (1) 2.4 mm jack for external 12VDC PSU (triple redundancy)

Engine

Input Voltage: 230 VAC nominal
Input Frequency: 50 Hz nominal
Output Voltage: same as input voltage
Output Frequency: same as input frequency
Max. total load: 2 x 10 A
Max. inrush current: 120 A
Power switching: relay-based, only for live wire
Control logic: microprocessor-controlled, proprietary

Management

Indicators: (2) input status, (8) output status, (1) LAN speed, (1) LAN activity, (4) dry contact output status

Configuration:

Operation

Serial control: PSE518MA: only for configuration, not for output control, PSE518SA: yes, RS232 or RS485
Modem control: no
Phone control: no
Telnet control: no
HTTP control: yes, SSL-secured (HTTPS) only
SNMP control: no
Delayed reboot: yes
Default power-up state: yes
Automatic reboot: yes, based on one or a combination of more events
Scheduler: yes
Notification and alerts: email, syslog

Security

Different user types: admin, 255 users
Password protection: yes
IP address filtering: yes
Configurable HTTP port: no
Exclusive HTTP session: no
Encrypted HTTP connection: yes
Auto-logoff: yes

Other features: DNS client, DHCP client, SNTP client, SMTP client

Physical specifications

Power supply: internal, redundant, optional external PSU for triple redundancy
Dimensions (W x H x D): 437 x 107 x 42 mm
Weight: 2 kg
Operating temperature range: 0 – 40 °C
Operating humidity range: 10 – 80% RH, non-condensing
Enclosure: metal
Convection: passive

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