BLACK BOX®
NETWORK SERVICES

Power Switch Series

Key Features

- Remote power on/off/ server reboot capability over TCP/IP.
- Reduces time on-site personnel are needed.
- Easy operation through browser-based management.
- Flexible system controls up to 40 devices.
- Platform independent.
- Interoperable with ServSwitch products.

The Power Switch series was created to provide solutions for a variety of applications where remote control of power outlets is required. Each product in the series has a built-in Web server, an Ethernet and a serial RS-232/V.24 connection. The on/off/reboot capability of these devices is ideal to reboot "locked-up" servers or to control the power distribution of electrical equipment via the Intranet or over the LAN.

Easy configuration
The Power Switch configuration is extremely simple and fast. It comes down to the setting of an IP address and a password. Configuration is performed through the V.24 serial port of a PC using the configuration software and the supplied cable, or directly over an IP LAN segment using a configuration tool for selected models.

Socket Identification
The user can freely assign a name to each socket and to the Power Switch itself in order to avoid any confusion during command.

Saved Configuration
A non-volatile memory stores the IP address, the user passwords, and the name of Power Switch and its sockets. After switching on or after a power failure, Power Switch automatically restores the electrical state of the sockets according to a saved configuration.

Secure Access
The user can define a password to protect access to Power Switch. The built-in Web server prohibits the command of the sockets by unauthorized people using an IP address access table, denies concurrent access and automatically disconnects the user after two minutes of inactivity.

Command
The outlets can be controlled either interactively through a web browser (like Internet Explorer or Netscape) or through commands to be integrated in an application program.

Applications
Applications of Power Switch are numerous and varied. It can be used to remotely restart servers and workstations, networking equipment, switching on or off printers, lighting, heating, etc.

Overview:

1- and 4-Port Power Switch Maverick
These models are especially designed for industrial applications and stand-alone servers being continuously monitored via IP (ping and/or port scan at regular intervals). Alternatively, the Power Switch Maverick can be controlled directly through a standard RS-232/V.24 connection.

4-Port Power Switch Office and -Cabinet
These models are standard power strips, available with 4 types of sockets for use in the European countries. It allows individually control via serial or IP of up to 4 electrical devices.

8-Port Power Switch Master Twin and Satellite Twin
This is a cascadable system for up to 40 ports (using 1 master and 4 satellites), each switch having increased output current capability – up to 20A per device - over the dual inlet. It is therefore very suitable for redundant powered devices (enterprise servers, routers, etc).
The built-in Web Server of the Power Switch Master Twin allows individual control of all the outlets using only one IP address and one user authentication for both the master and all its connected satellites.
Alternatively, the Power Switch system can be controlled directly through a standard RS-232/V.24 connection, which can be further extended using our (secure) console servers and automated via scripts into the IP environment.

Specifications

PSE501-xx and PSE504-xx

Connections

Inlets: (1) IEC 320 C13, 230VAC 50Hz
Outlets: PSE501: (1) IEC 320 C13, PSE504: (4) IEC 320 C1, max 10A total
Serial: PSE501: (1) RS232 DB9 M, PSE504: (1) RS232 DB9 F
Network: (1) RJ45 F 10BASE-T

Indicators

(1) LED Power ON/activity
PSE501: (1) LED outlet ON, PSE504: (4) LED outlet ON

Operation

Port command and control: serial or over IP (HTTP), automatic reboot by ping or port scan timeout (configurable), delayed reboot
Users: SW161A: (1) admin, (1) user, PSE504: (1) admin, (4) user

Security

User password, IP address access table, configurable HTTP port, exclusive HTTP session, automatic logoff (timeout)

Environmental

Operating temperature: 0 – 40°Celsius
Humidity: 10 – 80% non-condensing
Dimensions: PSE501: WxDxH 175 x 102 x 42mm, PSE504: 230 x 112 x 42 mm
Weight: PSE501-xx: 0,8kg, PSE504: 1kg

PSE505-xx and PSE506-xx

Connections

Inlets: (1) country-specific power plug
Outlets: (4) country-specific power outlets, max 10A total
Serial: (1) RS232 DB9 M
Network: (1) RJ45 F 10BASE-T

Indicators

(1) LED Power ON/activity
(4) LED outlet ON

Operation

Port command and control: serial or over IP (HTTP), delayed reboot
Users: (1) admin

Security

Password, configurable HTTP port, automatic logoff (timeout)

Environmental

Operating temperature: 0 – 50°Celsius
Humidity: 10 – 80% non-condensing
Dimensions (WxDxH): 478 x 73 x 49mm
Weight: 1kg

PSE508MA-xx and PSE508SA-xx

Connections

Inlets: (2) IEC 320 C13, 230VAC 50Hz
Outlets: (8) IEC 320 C14, max 20A total
Serial: (1) RS232 DB9 F (PS508MA only)
Network: (1) RJ45 F 10BASE-T
Cascade: (1) RJ9 F (PS508MA), (2) RJ9 F (PS508SA)

Indicators

(1) LED Power ON/activity
(8) LED outlet ON
PS508MA: (4) Satellite ON

Operation

Port command and control: serial or over IP (HTTP), twin on/off/reboot, delayed reboot
Users: (1) admin, (8) user per stack

Security

User password, IP address access table, configurable HTTP port, exclusive HTTP session, automatic logoff (timeout)

Environmental

Operating temperature: 0 – 40°Celsius
Humidity: 10 – 80% non-condensing
Dimensions (WxDxH): 437x107x42 mm
Weight: 2kg

Ordering information

ITEM	CODE
Power Switch Maverick 1-Port	PSE501-xx**
Power Switch Maverick 4-Port	PSE504-xx**
Power Switch Office 4-Port, Wall mountable	PSE505-xx*
Power Switch Cabinet 1-Port, 19" Rack mountable	PSE506-xx*
Power Switch Master Twin 8-Port, 19" Rack mountable	PSE508MA-xx**
Power Switch Satellite Twin 8-Port, 19" Rack mountable	PSE508SA-xx**
Cable IEC320 M / IEC320 F, 1.5m	POW02-0005
Cable IEC320 M/ IEC320 F, 3.0m	POW02-0010

*For country specific socket replace "xx" with:
"CH" - 250 V 10 A SEV for Switzerland
"DE" – SCHUKO 250V,10A DIN 41494, DIN 57620, VDE 0629 for Germany, Austria, Finland, Netherlands, Luxembourg, Sweden, Norway, Spain, Portugal, Turkey
"UK" - 250 V 10A for United Kingdom
"FR" - 10A NFC 61-303 for France, Belgium

**For country specific socket replace "xx" with:
"CH" - 250 V 10 A SEV for Switzerland
"EU" – SCHUKO 250V,10A DIN 41494, DIN 57620, VDE 0629 for Austria, Belgium, Finland, France, Germany, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Turkey
"UK" - 250 V 10A for United Kingdom