BLACK BOX
NETWORK SERVICES

Power Switch Twin 32 Master

Manage up to 40 power outlets over IP or RS-232.

FEATURES

- Remote power control of 8-40 power outlets or power outlet groups.
- Eight 10 A power outputs.
- Two 16A power inputs with current probe.
- 32 monitoring and schedule rules.

Power Switch Twin 32 Master (PSE538MA)

OVERVIEW

Power Switch Twin 32 Master is a power distribution and control unit that enables power management of 8 devices over a TCP/IP or RS232 serial connection. The number of controlled power outlets can be extended up to 40 by cascading up to four Power Swith Twin Satellites (PSE538SE) using standard RJ45 CAT5 network cables. Thanks to its two separate 16A power inputs with current probe, this power distribution unit is ideal for servers with redundant power supplies.

On, off and restart functions

Each power outlet can be individually controlled through a Ethernet or RS232 Terminal connection to turn ON, OFF or restart the connected equipment.

Two separate 16A power inputs with current probe

Thanks to its two separate 16A power inputs, this power distribution unit provides a total power-delivering capability of 7360 VA and can be used to control and measure current of servers with redundant power supplies.

Power outlets grouping

Up to 20 groups of outlets can be created to control with a single command servers with redundant power supplies.

Up to 40 users accounts

The administrator performs the configuration and the power outlets control through a web browser. He also creates and specifies the outlets access rights for up to 40 users.

Current probe / action triggering

The current consupmption of each input can be remotely monitored through the Power Switch Twin 32 Master. Rules can be created to control power outlets, send Syslog alerts, Emails or SNMP traps when predetermined alert threshold are exceeded.

IP device monitoring

The Watchdog function lets you monitor eight IP devices with specific services or ports (servers, routers, camera etc.). In case of lock-up of the monitored device, this one can be automatically rebooted and alerts can be sent to Syslog or SNMP servers.

Internal clock / scheduler

An internal RTC clock allows to timestamp the events, messages and e-mails and to trigger user-specified actions according to a defined time table.

Easy and fast configuration

The network parameters configuration can be done through a convenient Windows tool.

Syslog messages

FEvent logs (connection, disconnection, power outlet control, power failure and action triggering) can be sent to 2 Syslog Servers.

Programmable power-up and restart delays

The administrator can set a power-up delay for each power outlet between 0 and 255 seconds. Furthermore, he can define a restart delay between 1 and 3600 seconds.

Programmable outlet status at restart

The administrator can define the outlet default status after a power failure (on, off or last memorized status).

Sequential power up/down

Avoids the risk for a power inrush to blow a fuse or circuit breaker in the data centre.

Programmable labels

A 32-character label can be attributed to the ePowerSwitch and to each power outlet to avoid confusion during operation.

On line help

A contextual on line help can be used anytime during the configuration.

What's included

- (1) Power Switch Twin 32 Master
- (2) power cables, 1,80 meter
  IEC-320-C13 / EU, CH or UK standard
  EU = Schuko/Europe, CH = Swiss, UK = United Kingdom
- (1) serial cable (SUB-D9 male/female) 1,80 meter
- (1) RJ45 cable
- (1) CD-ROM with user guide in English and Windows IP configuration tool

Power Switch
Twin 32 Master
(PSE538MA)

Supported peripherals:

Up to 4 of following peripherals can be connected to the Power Switch Twin 32 Master:

- ✦ Sensors:
  - temperature sensor (PSE518-T)
  - temperature and humidity sensor (PSE518-TH)
  - temperature and ambient light sensor (PSE518-TL)
  - temperature and proximity sensor (PSE518-TP)
- ✦ Nominal input voltage: 230 V/50Hz
- ✦ Maximum current: 16A/group
- ✦ 8 power outputs: IEC 320 EN 60320 C13 (F)
- ✦ Output voltage: 230 V/50Hz
- ✦ Maximum current/outlet: 10A
- ✦ Network standards: IEEE 802.3, 10/100 Mbit/s
- ✦ Network protocols: TCP/IP, HTTP
- ✦ Network connection: RJ-45 for UTP CAT5
  - smoke detector
  - movement detector
  - position, passage or level detector (PSE518-MC)
- ✦ Power outlet management:
  - power control unit, 1 outlet (PSE551)
  - power control unit, 8 outlets (PSE518MA)
  - power control unit, 8 outlets and 2 16A inputs with current probe (PSE538MA)
- ✦ I/O modules:
  - 16 inputs for dry contacts (PSE500-XBA)
- ✦ Max. network cable lenght: 100 m
- ✦ Terminal connection: RS-232, SUB-D 9 female
- ✦ Connection Bus: RS-485, RJ-45
- ✦ LED's: power and network traffic socket status
- ✦ Operating temperature: 0°C to + 40°C
- ✦ Operating humidity: 10% to 80%
- ✦ Distributor:
  - 8 relay outputs (PSE518-DIM)
- ✦ Push Button (PSE518-PB)
- ✦ Power consumption management:
  - current probe, 1 power outlet (PSE518-CP)
  - consumption measuring: kWh, A, Volts (EnergyMeter)

TECH SPECS

Connections —
- Power inputs: (2) IEC-320 C20
- Power outputs: (8) IEC-320 C13
- Network: (1) RJ-45 F 10/100 Mbps Ethernet
- Serial: (1)DB-9 F RS-232
- Connection bus: (1) RJ-45 RS485

Engine —
- Nominal input voltage: 230 V/50Hz
- Output voltage: 230 V/50Hz
- Maximum total current: 2 X 16A
- Maximum current / outlet: 10 A
- Network standards: IEEE 802.3, 10/100BASE-T
- Network protocols: HTTP, DHCP, SNMP, Syslog, SNTP

Management —
- Indicators: (1) power supply A, (1) power supply B, (1) network traffic, (8) socket status

Physical and environmental —
- Operating temperature: 0°C to +40°C
- Operating humidity: 10% to 80%
- Dimensions: 437 x 107 x 42 mm
- Weight: 2 kg

Item	Code
Power Switch Twin 32 Master	
Schuko Power Cord	**PSE538MA-EU**
Swiss Power Cord	**PSE538MA-CH**
UK Power Cord	**PSE538MA-UK**
You may also need	
xBus Sensor, temperature sensor	**PSE518-T**
xBus Sensor, temp./humidity sensor	**PSE518-TH**
xBus Sensor, temp./ambient light sensor	**PSE518-TL**
Cable Mgmt, cable manager horizontal	**PSE500-CMH**
xBus Sensor, digital input module	**PSE518-DIM**