SENTINEL
NETWORKS SIMPLIFIED

Network Power Switch

Switched PDU and Automatic Transfer Switching In One

Product Highlights

Remote Power Control
Reboot locked up equipment instantly without the need for costly site visits. Optionally turn attached equipment on or off at scheduled times, for example, when staff have gone home and at weekends, saving energy costs.

Automatic Transfer Switching
Using an automatic transfer switch is a simple and cost effective way of providing single corded devices with the benefit of redundant power. Simply connect your single power supply router or server to the NPS-ATS network power switch and you have instant power supply redundancy for all your networking.

Seamless Power Transfer Switching
Transfer to a secondary power source is automatic and instant when the primary source fails. This ensures that a power failure will not affect the attached device's performance in any way.

Continuous Source Monitoring
The NPS-ATS will monitor the primary power source and, as soon as power is restored to the primary input, the unit will switch back to the primary source from the secondary source.

Temperature Monitoring
The NPS-ATS will constantly monitor your remote rack temperature level with an integral sensor. If the temperature exceeds your pre-defined thresholds, you will be notified and the unit can, if necessary, turn on external fans or air-conditioning to help bring rack temperature back to normal levels.

Alarm Notification
Alarms are generated to provide you with an advanced warning of problems with your equipment such as lost voltage or high rack temperatures. Alarms can be sent by email, text message, SNMP, SYSLOG or audibly.

An audit log on the unit also creates a record of all power monitoring, switching and reboot activity, helping to increase network availability by identifying issues before they become critical.

Power Control and Automatic Transfer Switching

The NPS-ATS Network Power Switch is an innovative and low cost way to provide your single-corded devices with dual power redundancy and remote power control in one device. By combining the functionality of an automatic transfer switch with the features of a switched PDU, you have an affordable solution to manage and troubleshoot your remote networking. The combined functions of the NPS-ATS will allow you to consolidate these networking tools into one compact unit, preserving rackspace, simplifying installation and making cost savings as you are not forced to purchase separate product solutions for these tasks.

Power Control is simple as the NPS-ATS gives you the ability to remotely power reboot your IT devices from anywhere. Just point your browser to the IP address of the NPS-ATS Network Power Switch, enter the secure user name and password and you can immediately reboot a locked up device. Return your network to operational status immediately without a costly and time consuming engineering call-out and maximise network uptime. Scheduled on/off switching on the NPS-ATS will also allow you to more efficiently manage your power consumption by powering off equipment when it is not required.

Automatic Transfer Switching provides single-corded (single power supply) networking devices with the benefits of dual power redundancy. Many legacy and entry-level network devices still only have a single power supply which means that they are at risk from a power failure. Replacing these single-corded devices can be both costly and time consuming, but without power redundancy, a simple power outage or generator failure can quickly bring your network services down. The NPS-ATS has an integral power transfer switch for seamless power transfer from a primary source to a secondary source. This means that every single-corded device can now be connected to a redundant power supply at an affordable cost, enhancing a device's uptime in a minute.

FIVEYEAR WARRANTY

Your IT is at the heart of your organisation. If it fails, business stops. Sentinel has over fifteen years' experience in power and console management. With products located in thousands of mission critical IT facilities, ranging from offshore oil and gas installations to global 24/7 rolling news providers, backed up with the highest MTBF in the industry, our track record is second to none. Entrust your business continuity with **Sentinel.**

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Key Features

Automatic Transfer Switching
- Seamless Automatic Power Switching
- Continuous Source Monitoring
- Robust Out-of-Phase Switching Capability
- Typical Switching Time: 8 – 12 ms (16ms max. @ 60 Hz)

Remote Power Control
- Individual or Group Outlet Switching
- On/Off/Reboot/Default/Scheduled Switching
- Outlet Sequencing & Power Up Delay
- Device Watchdog Monitoring with Auto Reboot

Security
- SSHv2 Encryption
- Remote Authentication: LDAP/Kerberos/RADIUS/TACACS+
- HTTPS/SSL Secure Web
- IP Address Filtering & Multi-Level Subscriber Directory
- Port Specific Password Protection

Unit Management
- Compatible with SNMP-based Enterprise Management
- Command Line Interface (CLI) and Web-based Graphic User Interface (GUI)
- SNMP Control, Monitoring and Configuration with full MIB Support
- Multiple Concurrent SSH sessions
- SSL Web Browser
- Cisco Energywise™ Compliant

Temperature/Alarm Monitoring
- Temperature Monitoring, Logging and Alarming with Integral Sensor
- Alarming on Current or Rack temperature exceeded, Lost Communication, Failed Ping Command, Invalid Access Lock-out, Power Cycling, Lost Voltage and Buffer Threshold
- Audit Log of all user access, login/out times and command actions

Easy to Install, Proactive and Versatile

Easy to install and simple to use, the NPS-ATS can be configured via SSH or SNMP, or locally via the serial console port. A user-friendly GUI interface allows you to assign a location name, set system parameters and view outlet status. Outlets can be switched on, off, rebooted or set to user-defined default status.

Proactive alarm functions on the NPS-ATS will provide you with a range of tools to help you identify networking issues before they become critical. Comprehensive activity logs on the NPS create a record of all your power switching and monitoring activity and will help you identify issues before they become critical. Alarms are also generated and sent by email, text message, SNMP, SYSLOG or audibly to provide you with advanced warning of problems with attached equipment such as lost voltage or high rack temperatures. The NPS-ATS can also proactively manage networking equipment and reduce network downtime. The NPS-ATS will ping an IP address according to a user defined schedule and if the selected device fails to respond to this Ping command, the NPS-ATS can automatically reboot the locked up device. If you do not wish the NPS-ATS to perform the automatic power reboot, you can instead receive an immediate alert via SNMP, SYSLOG, email or text message.

Versatile and cost effective, the NPS-ATS Network Power Switch is a remote power reboot switch which will allow you to maximise equipment uptime whether your devices have single or dual power input feeds. For co-location providers, who offer a hardware reboot or automatic transfer switching to customers, installing the NPS-ATS will save valuable rackspace and costs. The NPS-ATS has outlet specific password protection so user access is limited to assigned switched outlets. With automatic transfer switching, full power control including reboot, load shedding and scheduled on/off switching and a range of additional alarm monitoring features including temperature alarming and logging, the NPS is a reliable and affordable solution that will help you do more for less.

The NPS-ATS is also available without the automatic transfer switch function should you wish to support dual power supply networking equipment exclusively. The NPS Network Power Switch (NPS-8 and NPS-16 models) itself has dual power supplies which protect the redundant power supply architecture of your larger dual powered servers, routers etc. Any dual power supply device can now be supported across the dual bus architecture of the NPS Network Power Switch in order that full redundancy is maintained without having to install two separate switched PDUs.

Description	Part Number
NPS-ATS Power Control and Automatic Transfer Switching, (8) IEC C13 Switched Outlets, 240V AC, Dual 16 Amp Inputs	ST4104
Other Options without Automatic Transfer Switching	
NPS-8 Power Control (8) IEC C13 Switched Outlets, 240V AC, Dual 16 Amp Inputs	ST4102
NPS-16 Power Control (16) IEC C13 Switched Outlets, 240V AC, Dual 16 Amp Inputs	ST4103