



# Summit RPS

Extreme Networks™ is enhancing the fault tolerance of Summit switch configurations with the Summit Redundant Power Supply (RPS). Managers of mission-critical production networks can enhance the fault tolerance of any Summit switch with the SummitRPS.

The SummitRPS provides redundant power supply support for up to two Summit switches via an external DC power connection. All Summit switches are equipped with a rear-panel DC power connector. Each SummitRPS includes the necessary DC power cables to attach each Summit switch.

## Load-Sharing


The Summit switch shares the load between the DC output from its own internal power supply and the DC input from the SummitRPS. As a result, there is no service interruption if a power supply fails because either one of the load-shared inputs can power the Summit switch.

SummitRPS also increases system reliability. Load-shared power with the SummitRPS results in lower operating temperatures of the Summit switch and increased power supply longevity. Overall, component reliability and the mean time between failure increases.

## Power Source Fault Tolerance

The SummitRPS contains two unique AC power supplies to deliver redundant DC power to each of the two Summit switches. Because there is greater likelihood of a power-source loss than a power supply failure, SummitRPS has two AC line inputs, one for each power supply.

The first AC input delivers power to Power Supply A, which provides DC power to the Summit switch attached to RPS Connector A. The second AC input delivers power to Power Supply B, which provides DC power to the Summit switch attached to RPS Connector B.



A Summit switch can now be protected from the failure of an AC power source. Simply plug the Summit switch AC line into a circuit breaker that is not being used by the SummitRPS AC line.

## Autosensing capability

Similar to all Summit switches, the SummitRPS has autosensing power supplies, which allow it to operate with either 110 VAC or 220 VAC line inputs at frequencies between 50 and 60 Hz.

## Environmental Sensors

SummitRPS is equipped with sensors that monitor internal temperature and alert the network manager if the temperature exceeds 60° C. Fans in the SummitRPS are built with a tachometer sensor for proactive detection of a potential failure. The tachometer sensor detects a fan failure if the fan rotation speed decreases by 20%. With advance notice, network managers can make the necessary repairs before a failure occurs.

Since the SummitRPS does not have an internal SNMP agent, the environmental sensors report status changes through a serial interface that is part of the DC power cable between SummitRPS and the Summit switch. The Summit switch attached to the SummitRPS reports the Summit RPS over-temperature or fan-fail conditions via the command line interface or SNMP traps.

## System Indicators

The SummitRPS front panel includes system-level LEDs for at-a-glance diagnostics and status. Lit green status LEDs mean the power supplies are operating properly. If there is a power supply failure, the status LEDs light amber.

There is also an LED that lights amber to indicate an over-temperature condition and one that lights amber to indicate a fan fail condition, which occurs when fan rotation speed is reduced by 20%.

# Summit RPS



# Summit RPS Specifications

## General

Redundant power supply for up to two Summit switches to guarantee uninterrupted service  
Separate AC inputs for each power supply  
Reports power supply and fan status via SNMP and CLI

## Power Supply Characteristics

Operating Voltage: 90-264V RMS  
Operating Line Frequency: 47-63 Hz  
Maximum Inrush Current: 25A max, cold start  
Operating Temperature: 0° C to 40° C full power, de-rate linearly to half-power at 70° C  
Output Power: 40W, convection cooling, 50W 28 FCM forced air  
Regulation: 3.3V +/- 5% (load 20% to max I), 5.0V +/- 3% (load 20% to max I), 12.0V +/- 5% (load 20% to max I)  
Noise Ripple: 50mv P-P on 3.3V, 50mV P-P on 5.0V, 120mV P-P on 12.0V  
Overvoltage: 130% of max output voltage on all outputs  
Hold Time: 16msec full load@120VAC

## Physical Specifications

Dimensions: (H) 3.5 in x (W) 17.32 in x (D) 17.42 in  
(H) 8.90 cm x (W) 44.0 cm x (D) 44.25 cm  
Weight: 15.62 lb (7.10 kg)  
Storage Temperature: -10° C to 70° C  
Humidity: 10% to 95% non-condensing  
Includes hardware for mounting in a standard 19-inch rack

## Regulatory Compliance

EN55022 Class B  
FCC part 15 Class A  
CSA C108.8-M11983 (A)  
VCCI Class 2  
EN50082-1 (IEC 801 Parts 2-4)  
EN61000 -3 -2  
EN61000 -4 -3  
EN61000 -4 -5  
EN61000 -4 -6  
EN61000 -4 -11  
UL 1950 3rd Edition  
CUL listed to CSA 22.2 #950  
EN60950:1992/A3:1995  
TUV GS (Rheinland)  
CE Mark

## Ordering Information

| Product    | Order Number | Description   |
|------------|--------------|---|
| Summit RPS | 10901        | Summit Redundant Power Supply support for 2 Summit switches |

Extreme Networks™ leads the third wave of LAN switching. Recognizing the need to migrate existing LANs to the extreme requirements of today's intranets, Extreme builds on Gigabit Ethernet with its system of Summit switches and ExtremeWare software to scale speed, bandwidth, network size and quality of service (QoS) from the desktop to the backbone.

For more product information from Extreme Networks, please call 1-888-257-3000.



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