



Cisco Redundant Power System 2300

Agenda

- Overview
- Applications
- Features and Benefits

Redundant Power System 2300 Overview



RPS 2300

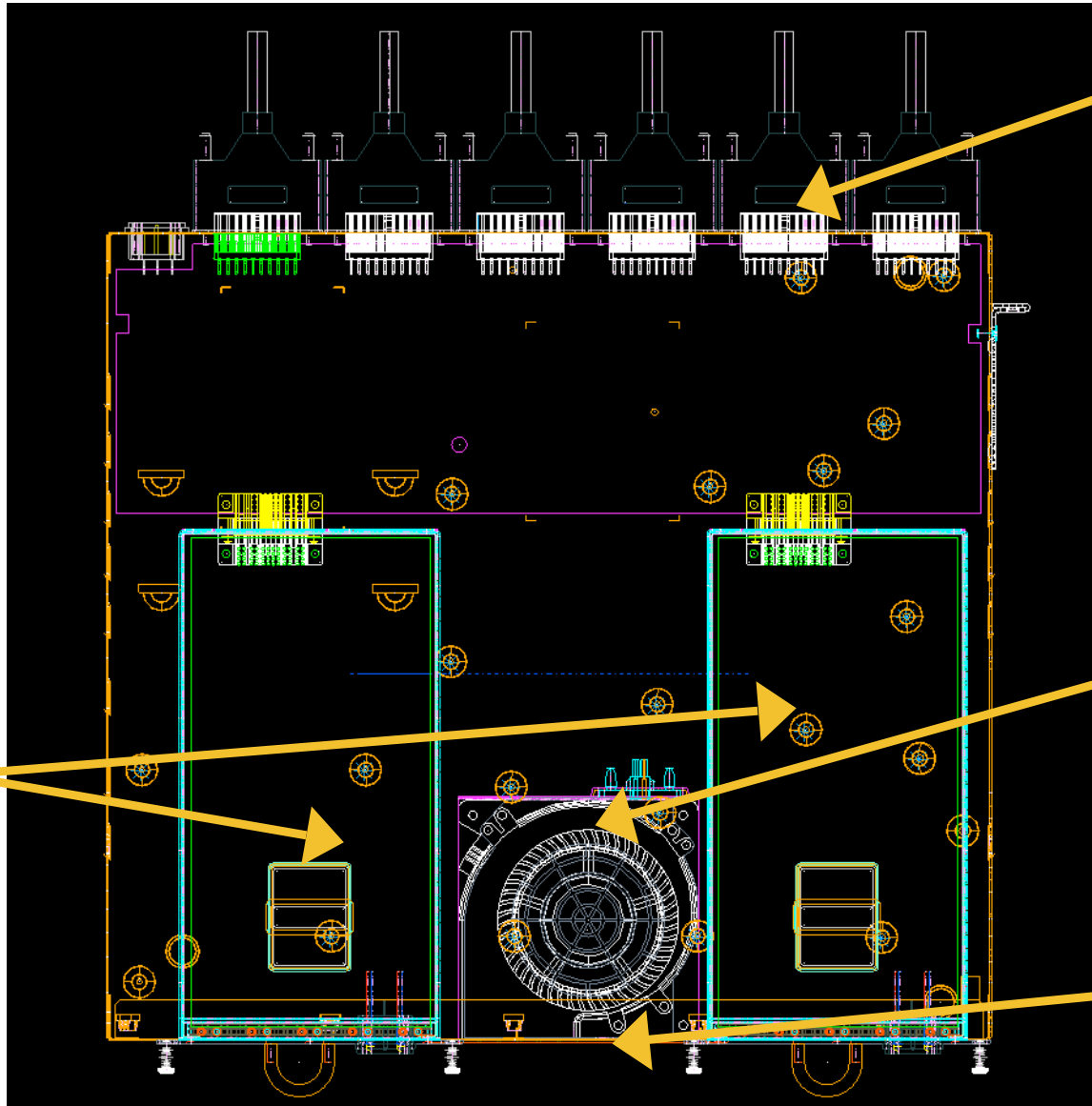
- Increases network availability
- Seamlessly provides backup power to network devices
- Modular power supplies and fan for flexibility and increased availability
- Management and configuration capabilities allow users to define and implement the failover policy



A Versatile and Intelligent RPS

Compatible with a wide range of Catalyst switches and Cisco Routers

Connects to up to 6 switches; Actively backs up to 2 switches



A choice of modular power supplies

Modular fan

Enhanced manageability through front panel, CLI and CNA

RPS 2300 Redundant Power System Features

Easier to Use

- Seamless failover to RPS 2300 when switch power supply fails
- Automatic seamless back-off when the Catalyst 3750E and 3560E switch power supply resumes operation
- Enables intelligent power management (through Catalyst 3750E and 3560E switches)
- RPS 2300 and switch can have separate AC sources

Greater Modularity

- Uses the same 1150W and 750W power supplies as the Cisco Catalyst 3750E and 3560E switches
- Replaceable fan module

More Devices Supported

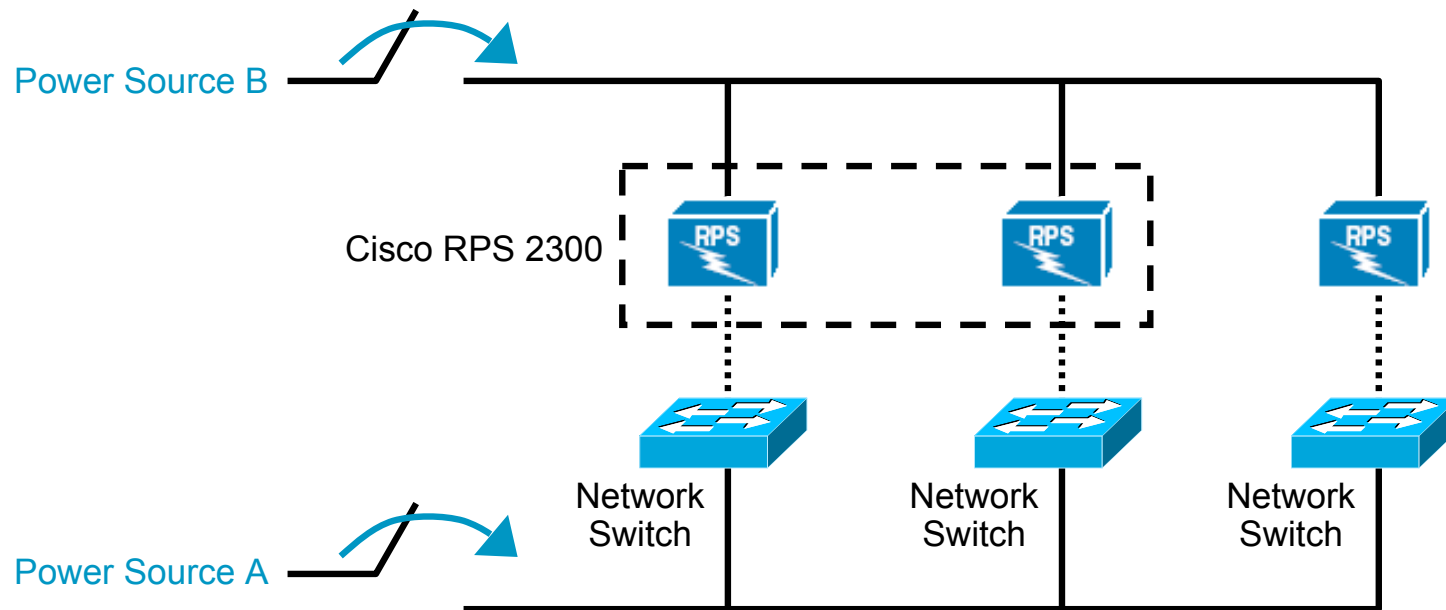
- Supports Catalyst 3750E and 3560E switches and Integrated Services Routers and is backward compatible with [switches and routers previously supported by RPS 675](#)
- Six RPS connectors—Up to 2 switches actively backed up



Redundant Power System 2300 Applications



RPS 2300 Applications



The primary power faults to protect against include:

- Internal power supply failures
- Failure of an AC circuit (e.g., A circuit breaker tripping)
- Interruption of utility power

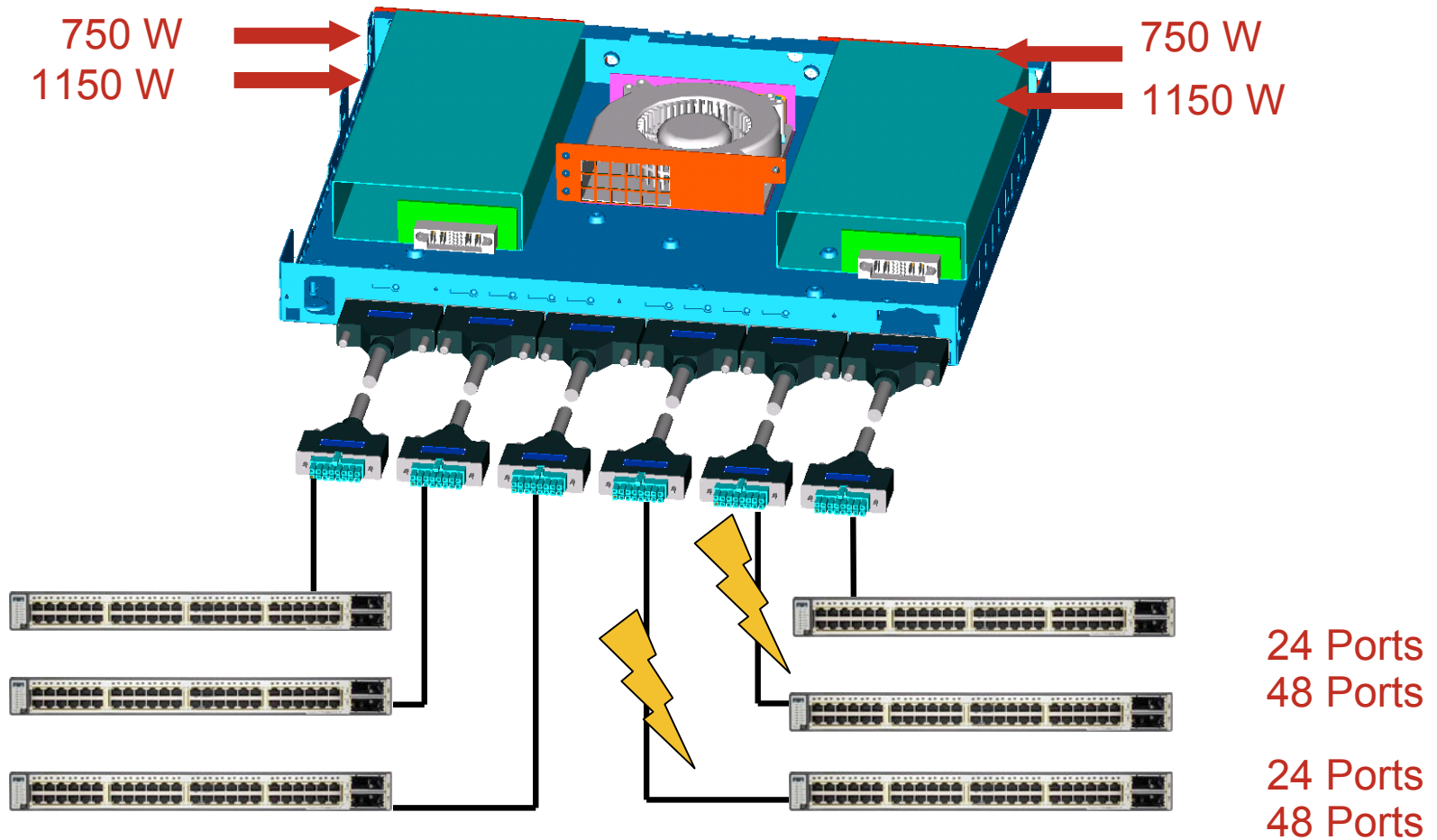
The first two issues can be addressed with The RPS 2300. The last requires an uninterruptible power system (UPS). For maximum availability, the RPS should always be used in conjunction with a UPS.

Redundant Power System 2300

Features and Benefits



Provides Protection for Two 48-Port PoE Switches



RPS 2300 Configuration

	1 x 750W	2 x 750W	1 x 1150W	2 x 1150W
Catalyst 3750E or 3560E switches with 1150W PS	Not supported	1	1	2
All other supported network devices	1	2	1	2

Field-Replaceable Power Supplies

- Four power supply combinations:
 - One or two 1150W AC, each supporting full 48 ports of PoE (740W)
 - One or two 750W AC, providing 370W of PoE each
- The RPS 2300 uses the same 1150W and 750W power supplies used in the Catalyst 3750E/3560E switches
- The 1150W power supply comes with its own cooling fans

Catalyst 3750E/3560E Switches



Reusable 750W
and 1150W
power supplies



RPS 2300

Modular Fan

Users may manually put individual RPS ports in standby or active mode



- The modular fan carries the management dashboard for the RPS 2300
- LEDs give real-time feedback on the status of the entire RPS, fans, and individual DC RPS port

Enhanced RPS Management Capabilities*

- When connected to the Catalyst 3750E or Catalyst 3560E, the following RPS 2300 parameters can be configured:

Place RPS in active/standby mode from a remote location

Set priorities for individual RPS ports.

Read and monitor the backup, failure and exception history

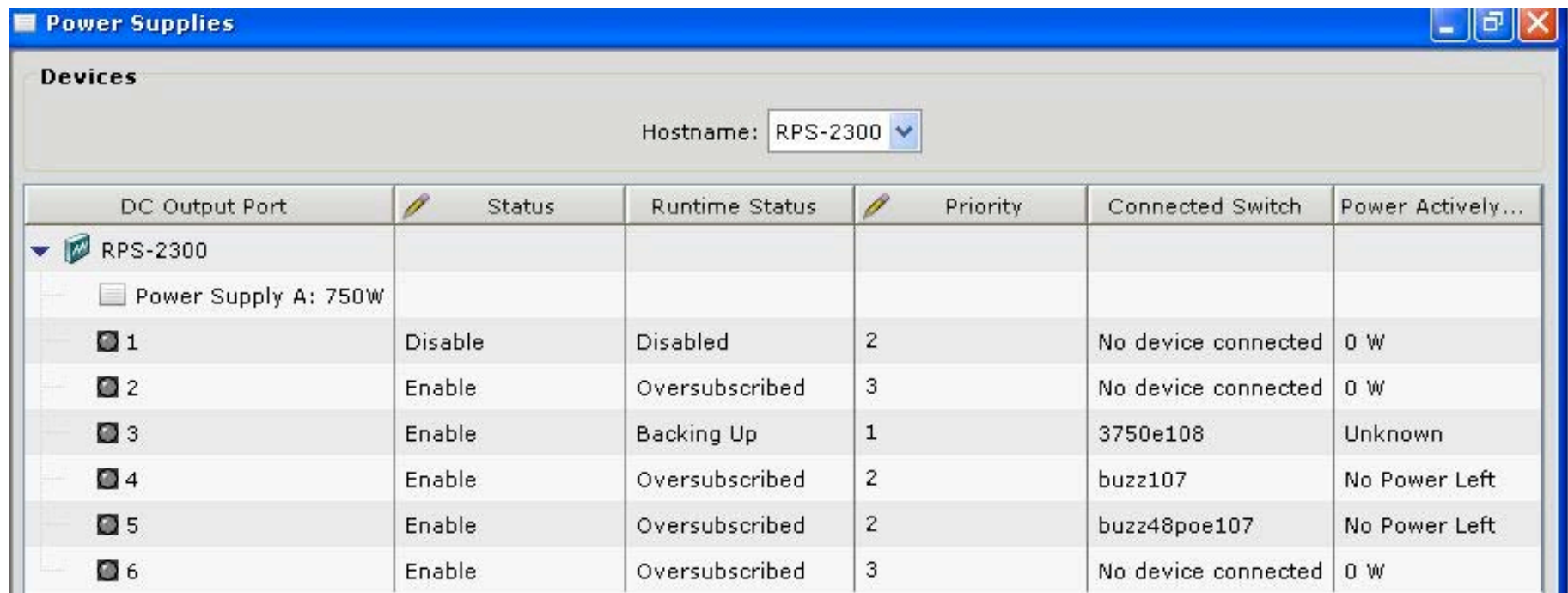
The above functionality is available through CLI and the Cisco Network Assistant (CNA)

*Available when an RPS 2300 is connected to at least one Catalyst 3750E or 3560E switch



Prioritizing RPS Ports

- Users may configure RPS DC port priorities so that important devices get top priority
- This guarantees higher availability for vital network devices (For example, switches engaged in IP Telephony)



The screenshot shows a window titled "Power Supplies" with a "Devices" section. The "Hostname" is set to "RPS-2300". Below this is a table with columns: DC Output Port, Status, Runtime Status, Priority, Connected Switch, and Power Actively... The table lists six ports for "Power Supply A: 750W".

DC Output Port	Status	Runtime Status	Priority	Connected Switch	Power Actively...
1	Disable	Disabled	2	No device connected	0 W
2	Enable	Oversubscribed	3	No device connected	0 W
3	Enable	Backing Up	1	3750e108	Unknown
4	Enable	Oversubscribed	2	buzz107	No Power Left
5	Enable	Oversubscribed	2	buzz48poe107	No Power Left
6	Enable	Oversubscribed	3	No device connected	0 W

Granular Monitoring

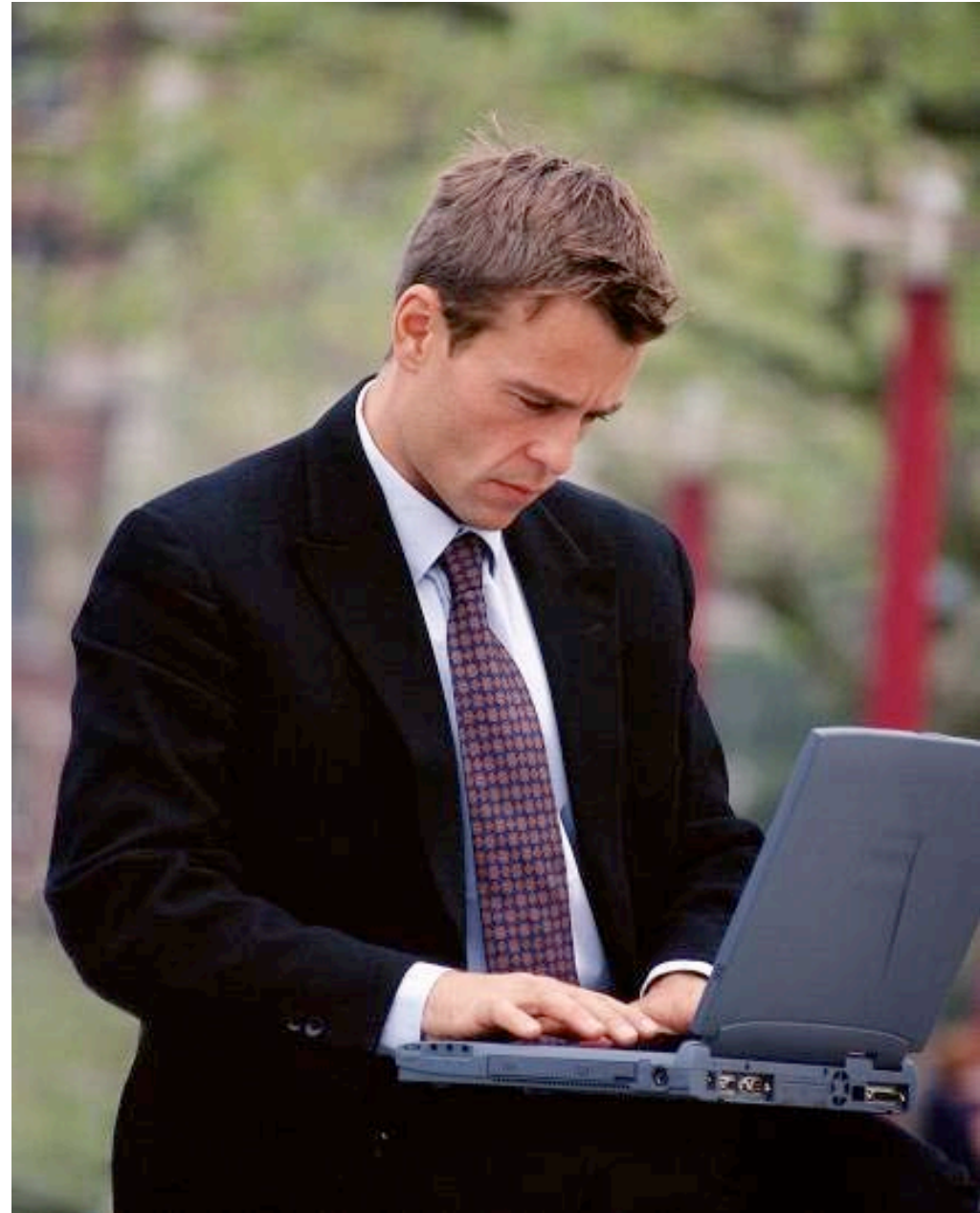
- Granular monitoring of the RPS gives complete visibility into redundant power requirements and usage:

- Switch connectivity and power requirements

- Power delivery status for individual RPS ports

- Net power usage

- Backup, failure and exception history



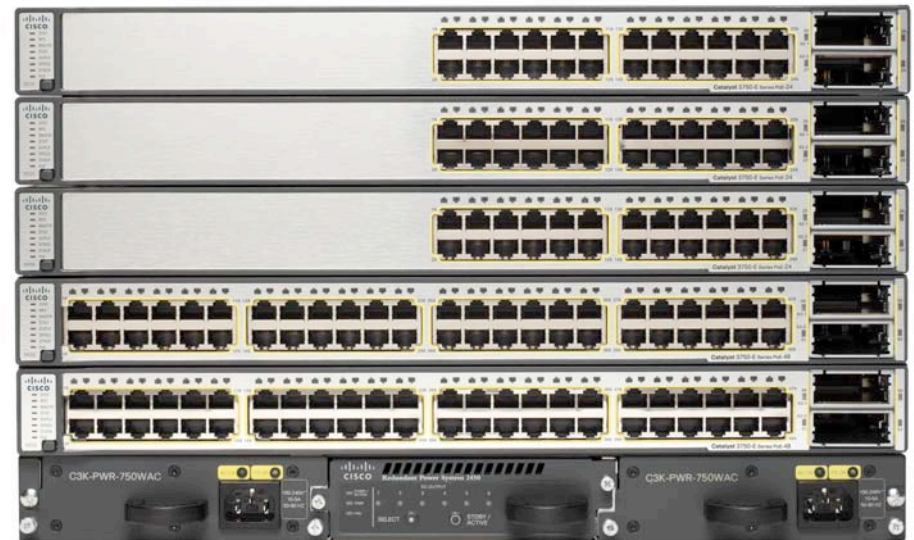
Compatible with a Wide Variety of Switches and Routers*

- Catalyst 3750E and 3750 switches
- Catalyst 3560E and 3560 switches
- Catalyst 2960 switch
- Catalyst 2950 switch
- Cisco Catalyst Express 500 switch (Certain models only)
- Cisco 3825 Integrated Services Router
- Cisco 2851 Integrated Services Router
- Cisco 2821 Integrated Services Router
- Cisco 2811 Integrated Services Router

*Please check the RPS 2300 compatibility matrix at [<URL>](#) for details

Summary

- Power protection for a variety of switches and routers
 - Catalyst 3750-E and 3750
 - Catalyst 3560- E and 3560
 - Integrated Services Routers (ISRs)
- Increases investment protection
 - Reuses Catalyst 3750E/3560E switch power supplies
- Compatible with a wide variety of network architectures
- Easy to use and introduces enhanced management features



More Information

- For more information about the Cisco Redundant Power System 2300, visit [<URL>](#) or contact your local account representative
- For more information about the Cisco Catalyst 3750-E switches, visit [<URL>](#)
- For more information about the Cisco Catalyst 3560-E switches, visit [<URL>](#)



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