

# Power Protection Application Brief

• Cisco Catalyst® Modular Switches • Tripp Lite SmartOnline™ UPS Systems, Battery Packs and Accessories

## Tripp Lite Protects Networking and Communications for Vital Government Services

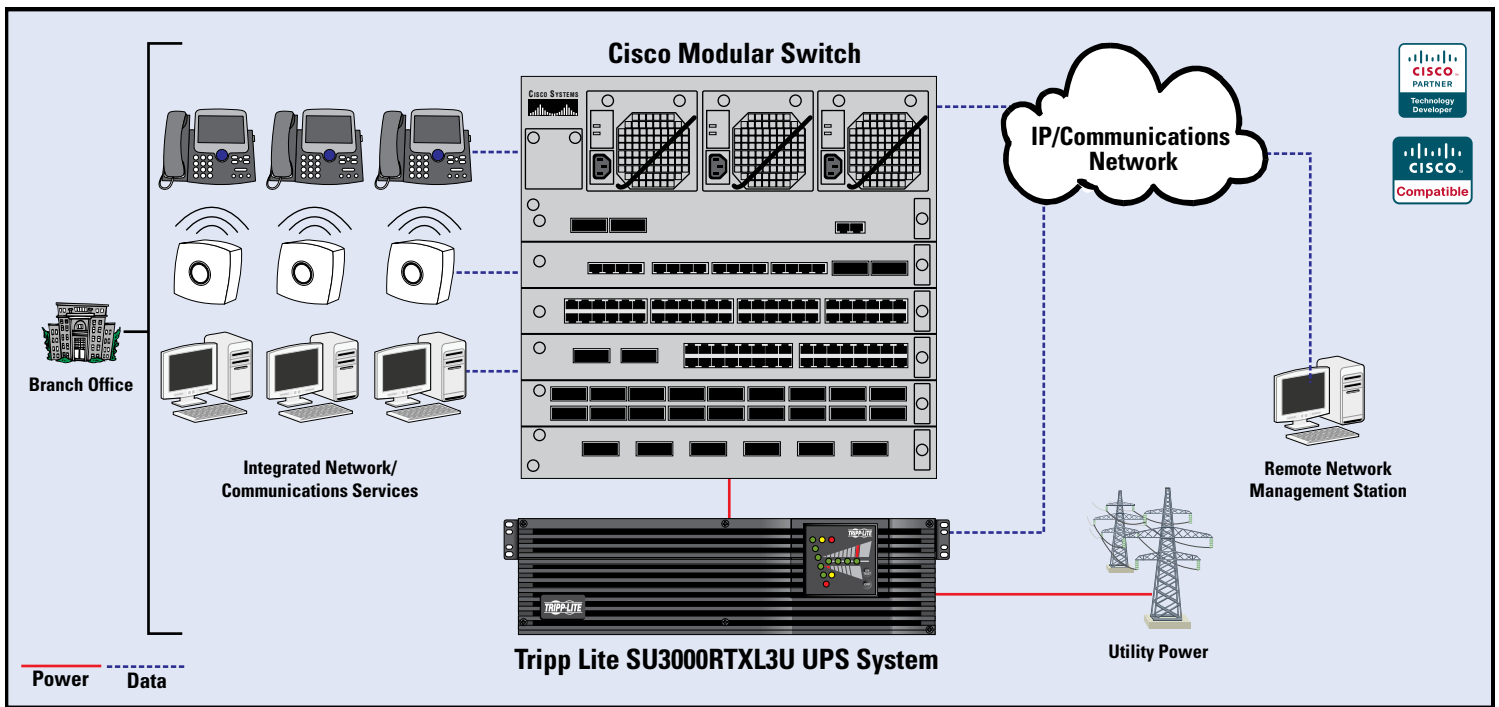
**The Client:** The Department of Human Services in a state with more than 10 million residents.

**The Challenge:** Protect mission-critical Cisco switches in telecom closets at more than 80 separate government offices statewide. Provide remote management capability. Configure, quote and deliver a complete solution in less than two weeks.

**The Solution:** SmartOnline UPS Systems provide clean, safe, reliable power and battery backup, ensuring uninterrupted network access. True on-line operation with continuous AC-to-DC-to-AC power conversion completely isolates sensitive electronics from power problems. Precision-regulated output power with pure sine waveform guarantees maximum performance and compatibility. External Battery Packs offer extended runtime capability. SNMPWEBCARD accessories enable remote monitoring and control via SNMP, Web or telnet, including centralized power management. 2POSTRMKITWM accessories enable UPS and battery pack installation in 2-post telecom racks.

Responsible for protecting the interests of children and families, the Department of Human Services provides vital public services to millions of people. The Department's networking and communications capability depends on Cisco Catalyst Modular Switches located in telecom closets at 80 branch offices throughout the state. Without power protection, these critical communications links are threatened by common power problems that cause service interruptions and equipment damage.

The Department of Human Services needed a complete solution in time for a major project rollout less than two weeks away. Tripp Lite delivered on schedule, offering faster shipment than the competition and providing superior technology at a lower price. Tripp Lite SmartOnline UPS Systems (Model: SU3000RTXL3U) keep the Department's mission-critical Cisco hardware up and running around the clock. Tripp Lite beats the competition with better features, lower prices and quicker turnaround, giving customers the organizational agility required to keep pace with rapidly evolving technology.



SmartOnline UPS Systems protect and support Cisco Switches 24x7x365, eliminating service interruptions and equipment damage in more than 80 offices statewide.

Network Device	Maximum Power Requirement
Cisco Catalyst 4006 Modular Switch	380-440 Watts per Switch

Multiple switches may be supported by a single UPS system. Contact us for custom solutions tailored to fit your specific applications.

UPS Accessories	
Model	Description
SNMPWEBCARD	Enables remote UPS monitoring and control via SNMP, Web or telnet.
2POSTRMKITWM	Enables 2-post mounting of Tripp Lite 2U-4U UPS systems and battery packs. Hardware for 4-post mounting is included with the UPS or battery pack.

SmartOnline UPS Systems & External Battery Packs	Capacity (VA/Watts)	Total Size	Connected Load (Watts)									
			200	400	800	1200	1600	2000	2400	3600		
<b>Model</b>			<b>Estimated Minimum Runtime (Minutes)*</b>									
<b>SU5000RT4U</b>	5000/3750	4U	271	122	56	33	23	16	14	9		
with (1) BP192V12-3U‡		7U	576	271	129	79	56	41	33	20		
<b>SU3000RTXL3U</b>	3000/2400	3U	156	66	29	17	11	8	6			
with (1) BP72V15-2U†		5U	335	151	69	41	29	21	17			
with (1) BP72V28RT-3U‡	6U	583	273	129	79	55	41	33				
<b>SU2200RTXL2Ua</b>	2200/1600	2U	101	42	18	9	6					
with (1) BP48V24-2U†		4U	282	126	57	34	23					
with (1) BP48V60RT-3U‡	5U	542	252	119	72	50						
<b>SU1500RTXL2Ua</b>	1500/1200	2U	66	27	10	5						
with (1) BP48V24-2U†		4U	282	126	57	34						
with (1) BP48V60RT-3U‡	5U	542	252	119	72							

\*Runtime varies with load characteristics, battery condition and other factors. †Maximum of 1 battery pack per UPS system. ‡Multiple battery packs can be daisy-chained.



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Tripp Lite's PowerAlert Software, version 12.5, has tested compatible with Cisco CallManager, versions 4.0 and 4.1, Cisco 7600 Series Routers, 7500 Series Routers and Catalyst 65XX Layer 3 Switch. Tripp Lite PowerAlert Software, version 12, has tested compatible with Cisco CallManager, versions 3.3(4)-MCS and 4.0(2)-MCS. Go to [www.triplite.com/logodisclaimer](http://www.triplite.com/logodisclaimer) for details. Tripp Lite is a Cisco Technology Developer Partner in the Cisco Technology Developer Program. Cisco, Cisco Systems, the Cisco Systems logo, and the Cisco Square Bridge logo are registered trademarks or trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries. SmartOnline is a trademark of Tripp Lite. All other trademarks are the sole property of their respective owners.