

Power Protection Application Brief

Application Description

Cisco CallManager Servers, Integrated Services Routers and Catalyst PoE Switches Tripp Lite SmartOnline UPS Systems and SNMPWEBCARD

The Client: A global direct marketing company with more than a dozen call centers throughout the U.S.

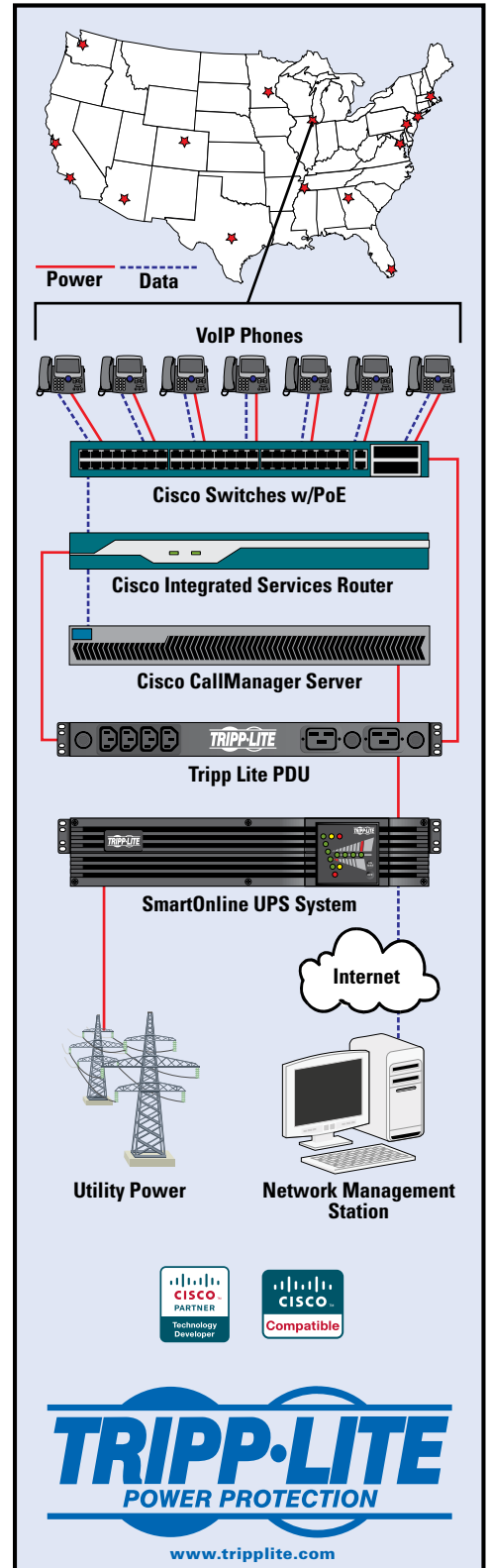
The Challenge: Protect and support a mission-critical, nationwide VoIP network, including Cisco CallManager servers, integrated services routers and PoE switches. Provide unified remote management capability for all UPS systems.

The Solution: SmartOnline UPS Systems and external battery packs provide clean, safe, reliable power and long-lasting battery backup. SNMP/Web accessory cards enable IP-based remote monitoring and control of UPS systems via SNMP Network Management System, Web browser or telnet. Tripp Lite PDUs distribute power efficiently to rack equipment.

Without a dial tone, a direct marketer's business stops cold. When an industry-leading direct marketer recently migrated their call centers to VoIP, system reliability was their top concern. They needed around-the-clock power protection and battery backup that would outlast power failures. They also wanted to monitor and control their branch office power protection from a central location and unified interface.

Tripp Lite SmartOnline UPS Systems and external battery packs provided the foundation of safe, clean, reliable power they needed to keep their mission-critical VoIP network up and running. SmartOnline UPS Systems use true on-line operation with AC-to-DC-to-AC double conversion to isolate sensitive electronics from all power problems, delivering pure sine wave output for maximum performance and compatibility. Each UPS system was also equipped with an SNMP/Web accessory card that enabled centralized monitoring and control of the distributed power protection solution from the company's Network Management System. Tripp Lite power distribution units routed power to connected equipment efficiently, maximizing use of available rack space. Because Tripp Lite delivers enterprise-level power protection without enterprise-level complexity, the power protection solution integrated with the VoIP rollout without requiring additional administrative, personnel or training costs.

SmartOnline UPS Systems provide total isolation from power problems for more than a dozen call center locations nationwide. SNMP/Web accessory cards allow the distributed power protection solution to be managed from a central location.



Cisco Network Device	Maximum Power Requirement (Watts)
Catalyst 3750-48TS 48-port Switch	75
Catalyst 3750-48PS 48-port Switch (PoE)	540
RPS 675 Redundant Power System	675
2801 Integrated Services Router	150
2801 Integrated Services Router and IP Phones	330
2811 Integrated Services Router	210
2811 Integrated Services Router and IP Phones	370
2821 Integrated Services Router	310
2821 Integrated Services Router and IP Phones	550
2851 Integrated Services Router	370
2851 Integrated Services Router and IP Phones	730
3825 Integrated Services Router	360
3825 Integrated Services Router and IP Phones	730
3845 Integrated Services Router	360
3845 Integrated Services Router and IP Phones	915
7800-series Media Convergence Server	120-1,600

SmartOnline UPS Systems for VoIP Network Hardware	Connected Load (Watts)							
	70	140	210	350	560	700	1000	1600
	Minimum Runtime (Minutes)*							
Tripp Lite Part #								
SU5000RT3U (5,000VA/3,500W)	898	430	274	151	86	65	41	22
SU5000RT3U + BP240V10RT-3U	2,336	1,192	789	459	273	211	139	79
SU3000RTXR3U (3,000VA/2,400W)	807	388	248	137	78	59	38	24
SU3000RTXR3U + BP72V28RT-3U	2,116	1,072	707	409	242	187	123	69
SU1500RTL2Ua (1,500VA/1,200W)	249	109	66	35	19	12	7	
SU1500RTL2Ua + BP48V60RT-3U	1,662	830	542	310	181	139	90	
SU1000RTL2Ua (1,000VA/800W)	165	70	42	21	10	7		
SU1000RTL2Ua + BP24V28-2U	583	273	171	93	52	39		

Runtime varies with battery condition and specific load characteristics. Because equipment typically operates below peak wattage, runtime numbers represent the minimum runtime available. Maximum runtime may be considerably longer. All UPS systems shown may be configured with multiple battery packs for additional runtime.

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.tripplite.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.

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