Data Sheet

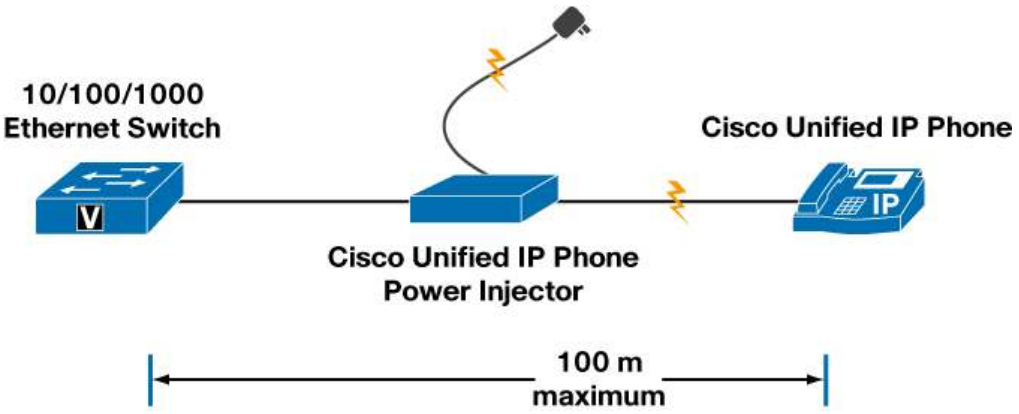
Cisco Unified IP Phone Power Injector

The Cisco® Unified IP Phone Power Injector (Figure 1) increases the deployment flexibility of Cisco Unified IP phones by providing an alternative powering option to local power, multiport power patch panels, and inline-power-capable switches.

Figure 1. Cisco Unified IP Phone Power Injector (Front, Back, and Stacked Views)

The Cisco Unified IP Phone Power Injector is a midspan power injector designed and tested for use with Cisco Unified IP phones. The Cisco Unified IP Phone Power Injector sits between a switch port and the Cisco Unified IP phone, providing inline power capability to an unpowered switch port. It supports Cisco midspan power, IEEE 802.3af modes for supplying power to the attached phone, and 10/100/1000BASE-T Ethernet connections. Figure 2 shows the maximum distance of the Cisco Unified IP Phone Power Injector between a Cisco Unified IP phone and an Ethernet switch.

Figure 2. Network Diagram



FEATURES

The Cisco Unified IP Phone Power Injector offers several features, including:

- A desktop and desk-area single-port midspan injector with integrated power
- 802.3af/IEEE Power over Ethernet (PoE) support
- Gigabit Ethernet support
- Full enterprise-level compliance
- Designed and tested for use with Cisco Unified IP Phones

SPECIFICATIONS

Table 1 lists specifications of the Cisco Unified IP Phone Power Injector.

Table 1. Specifications of the Cisco Unified IP Phone Power Injector

Specification	Description
Dimensions (H x W x D)	1.6 x 4.6 x 5.45 in. (4.1 x 11.8 x 13.8 cm)
Weight	.66 lb (.30 kg)
Phone casing composition	Polycarbonate acrylonitrile butadiene styerene (ABS) plastic in textured dark gray color
Power requirements	Power is integrated (see Table 5 for country-specific power cords used for connection to AC wall outlet)
Part number	CP-PWR-INJ
LAN connection	• Maximum Ethernet cable length: 100 m from switch to device • Type: RJ-45 • Label: DATA—Network
Device connection	• Maximum Ethernet cable length: 100 m from switch to device • Type: RJ-45 • Label: DATA and PWR—PHONE
LEDs	Two—"Power" and "Status"
Stackable	Yes—Two injectors can be stacked
Wired pairs used	Injects power into two unused pairs in the Ethernet cable: 4 and 5 (negative) and 7 and 8 (positive)
Electrical	Input: • AC input voltage range: 90 to 264 VAC • AC input current: 0.5A (RMS) @ 90 VAC at maximum load • AC input frequency: 47 to 63 Hz • Maximum inrush current: 20A @ 115 VAC, 60 Hz, Cold Start, 25℃ 40A @ 230 VAC, 50 Hz, Cold Start, 25℃ Output: • DC output voltage: 48 VDC nominal • Maximum output power: 15.5W @ 48 VDC Performance efficiency: • 53% minimum at 30–49% of maximum load and 120 VAC, 60 Hz • 75% minimum at 50–100% of maximum load and 120 VAC, 60 Hz

TEMPERATURE

Table 2 gives temperature ratings for the Cisco Unified IP Phone Power Injector.

Table 2. Temperature Ratings for Cisco Unified IP Phone Power Injector

Temperature Variable	Description
Operating temperature	32 to 104°F (0 to 40°C)
Relative humidity	10 to 95% (noncondensing)
Storage temperature	14 to 140°F (–10 to 60°C)

CERTIFICATIONS

Table 3 gives certifications for the Cisco Unified IP Phone Power Injector.

Table 3. Certifications for Cisco Unified IP Phone Power Injector

Certification	Description
Regulatory compliance	• CE marking
Safety	• Underwriters Laboratories (UL) 60950 • Canadian Standards Association (CSA) C22.2 No. 60950 • IEC 60950 • EN 60950 • AS/NZS 60950
Electromagnetic compatibility (EMC)	• Federal Communications Commission (FCC) Part 15 (CFR 47) Class B • ICES-003 Class B • EN55022 Class B • CISPR22 Class B • AS/NZ 3548 Class B • VCCI Class B • EN55024 • EN 50082-1 • EN 61000-3-2 • EN 61000-3-3 • CISPR24 • EN61000-6-1

ORDERING INFORMATION

Table 4 gives ordering information for the Cisco Unified IP Phone Power Injector.

Table 4. Ordering Information for Cisco Unified IP Phone Power Injector

Part Number	Description
CP-PWR-INJ	Cisco Unified IP Phone Power Injector
CP-PWR-INJ=	Cisco Unified IP Phone Power Injector, spare

POWER CORDS

Table 5 lists the AC country power cords needed for the Cisco Unified IP Phone Power Injector. An AC power cord is required to power the unit.

Table 5. AC Country Power Cords

Part Number	Description
CP-PWR-CORD-AP=	Asia Pacific
CP-PWR-CORD-AR=	Argentina
CP-PWR-CORD-AU=	Australia
CP-PWR-CORD-CE=	European Community
CP-PWR-CORD-CN=	China
CP-PWR-CORD-JP=	Japan
CP-PWR-CORD-NA=	North America
CP-PWR-CORD-SW=	Switzerland
CP-PWR-CORD-UK=	United Kingdom

WARRANTY

The Cisco Unified IP Phone Power Injector is covered by a Cisco Systems® standard one-year replacement warranty.

CISCO UNIFIED IP COMMUNICATIONS SERVICES AND SUPPORT

Cisco Unified IP Communications services and support reduce the cost, time, and complexity associated with implementing a converged network. Cisco and its partners have designed and deployed some of today's largest and most complex IP Communications networks—they understand how to integrate an IP Communications solution into your network.

Cisco design tools and best practices help ensure the solution best fits your business needs from the start, eliminating costly redesigns and downtime. Proven methods help ensure a sound implementation that will deliver the functions and features you expect—on time. Support services include remote network operations, network management tools to administer the converged application and network infrastructure, and technical support services.

Through these services, your organization benefits from the experience gained by Cisco and its partners. Taking advantage of this valuable experience, you can create and maintain a resilient, converged network that will meet your business needs today—and in the future.

Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters
Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco.com Website at www.cisco.com/go/offices.

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Printed in USA C78-352107-00 06/06