

**Data Sheet** 

# **Cisco Unified IP Phone Power Injector**

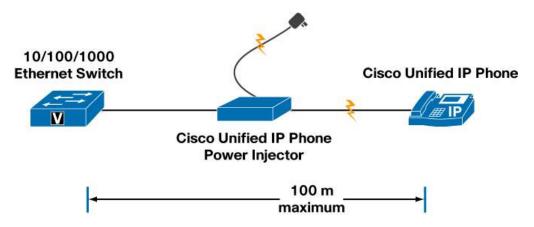
The Cisco<sup>®</sup> Unified IP Phone Power Injector (Figure 1) increases the deployment flexibility of Cisco Unified IP phones by providing an alternative powering option to local power, multiport power patch panels, and inline-power-capable switches.

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	<ul> <li>Maximum Ethernet cable length: 100 m from switch to device</li> <li>Type: RJ-45</li> <li>Label: DATA—Network</li> </ul>
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°C  40A @ 230 VAC, 50 Hz, Cold Start, 25°C  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<sup>®</sup> 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

Tel: +65 6317 7777 Fax: +65 6317 7799

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