Cisco Unified IP Conference Phone 8831

Product Overview

The Cisco® Unified IP Conference Phone 8831 enhances people-centric communications, combining superior high-definition (HD) audio performance and 360-degree coverage for all sizes of conference rooms and executive offices. It provides an audiophile sound experience with a full-duplex two-way wideband (G.722) audio hands-free speaker.

The IP Conference Phone 8831 is a simple, scalable solution that meets the challenges of the most diverse rooms. It provides flexible deployment options and expansion by using extension microphones that can be wired or wireless (Digital Equipment Cordless Telephone [DECT]) with a daisy-chain configuration of two units.

The IP Conference Phone 8831 has an industrial design with enhanced ergonomics that puts the user first. It offers a detached control panel so that the display may be easily viewed without having to move the entire unit. It also provides easy view of device mute status from all sides.

Supported on Cisco Unified Communications Manager and Business Edition systems, the IP Conference Phone 8831 delivers a more productive, acoustically pleasing, and secure communications experience across sites and participants.

Features and Benefits

The Cisco Unified IP Conference Phone 8831 offers many improvements over the existing Cisco Unified IP Conference Station 7937G. New features include:

- Superior wideband acoustics with the first two-element speaker in a conference phone; this feature allows the phone to capture the full voice spectrum without having to compromise with a single-element speaker
- Expanded room coverage with support for daisy chaining two units
- Support for DECT wireless extension microphones
- Session Initiation Protocol (SIP) signaling
- Device authentication and signaling encryption using Transport Layer Security (TLS) with Advanced Encryption Standard 128 (AES-128)
- Media encryption using Secure Real-Time Transport Protocol (SRTP) with AES-128

Table 1 lists the features and benefits of the Cisco Unified IP Conference Phone 8831.

Table 1. Features and Benefits

Feature	Specification
Features	
Superior wideband acoustics	• 160 Hz to 20 kHz, +/-3 dB. • The latest in wideband codecs for maximum voice bandwidth. • Enhanced speech quality and speaker recognition.
Output	92-dB SPL peak output[*]
Expanded room coverage	• 160-degrees conical pattern provides even coverage of listening area. • Four Hemi-Cardioid microphones are perfectly spaced so that they combine to provide a 180-degree pick-up pattern around the device. Speech is captured at the same level at all points around the Cisco Unified IP Conference Phone 8831.
Wired microphones	These microphones extend the operational range of the Cisco Unified IP Conference Phone 8831 with even coverage around the periphery of the device with 7 feet of additional reach.
Wireless microphones	DECT wireless microphones for the Cisco Unified IP Conference Phone 8831 provide additional coverage with the added flexibility of 300 feet of range.
Wired control panel	The panel allows easy control of the unit and viewing of the display without having to move the entire unit.
Power Features	
IEEE 802.3af line power	Local power supply is not required.
Cisco Power Cube 3	This power cube uses a standard Cisco Unified IP Phone Power Supply for non-Power over Ethernet (PoE) deployments. It is required for daisy chaining two units together.
Call-Control Support	
Cisco Unified Communications Manager	The phone supports Cisco Unified Communications Manager (Cisco UCM) Releases 7.1(5), 8.5(1), 8.6(2), 9.0, and later.
Cisco Business Edition 3000	The phone is supported on the Cisco Business Edition 3000 Releases 8.6(1) and later.
Cisco Business Edition 6000	The phone is supported on the Cisco Business Edition 6000 Releases 8.6(5) and later.

[*] Peak output measured in half-space environment.

Licensing

The Cisco Unified IP Conference Phone 8831 requires an Enhanced User Connect License (UCL) on Cisco UCM Versions 9.0 and later. For supported Cisco UCM versions before 9.0, a public space license is required.

Product Specifications

Table 2 lists the features and specifications of the Cisco Unified IP Conference Phone 8831.

Table 2. Features and Specifications of Cisco Unified IP Conference Phone 8831

Feature	Specification
Signaling protocol support	Session Initiation Protocol (SIP)
Codec support	G.711, G.729(a and ab), G.722, and Internet Low Bitrate Codec (iLBC)
Calling feature support	• + Dialing (E.164) • Adjustable ringing and volume levels • Adjustable display brightness • Application launch pad • Auto-answer • Auto-detection of headset • Barge • Call forward • Call history lists • Call timer

Feature	Specification
	• Call waiting
	• Caller ID
	• Corporate directory
	• Conference
	• Direct transfer
	• Fast-dial service
	• Hold
	• Immediate divert
	• Join
	• Message-waiting indicator
	• Music on hold
	• Mute
	• Network profiles (automatic)
	• On- and off-network distinctive ringing
	• Personal directory
	• Predialing before sending
	• Privacy
	• Ring tone per line appearance
	• Shared line
	• Survivable Remote Site Telephony (SRST)
	• Time and date display
	• Transfer
	• Voicemail
Directories	The Cisco Unified IP Conference Phone 8831 identifies incoming messages and categorizes them for users on the screen. This feature allows you to quickly and effectively return calls using direct dial-back capability. The corporate directory integrates with the Lightweight Directory Access Protocol Version 3 (LDAPv3) standard directory.
Settings	The Settings feature key allows you to adjust display contrast, select background images (if available), and select from a large number of unique ringer sounds through the User Preference menu. Network configuration preferences also can be set up (usually by the system administrator). Configuration can be either automatically or manually set up for Dynamic Host Control Protocol (DHCP), Trivial File Transfer Protocol (TFTP), Cisco Unified Communications Manager, and backup Cisco Unified Communications Manager instances.
Help	The online Help feature gives you information about the phone keys, buttons, and features. The pixel display allows for more flexible feature navigation and significantly expands the information viewed when using features such as Services, Information, Messages, and Directory. For example, the Directory button can show local and server-based directory information.
Hold, Mute, and Redial keys	The Mute key is a fixed key. When it is active, the LED flashes on the Cisco Unified IP Conference Phone 8831 as well as on the optional wired and wireless microphone kits. Hold and Redial are provided as soft keys associated with the screen, and are always at the same position for easy access.
Display	The conference station has a large high-resolution, graphical 3.5-inch backlit display (396 x 162 pixels).
Speakerphone	The Cisco Unified IP Conference Phone 8831 offers full-duplex high-quality wideband speakerphone technology. Included are Automatic Gain Control, comfort-noise generation, silence suppression and voice activity detection, Echo Suppression, and dynamic noise reduction, which reduces noise by up to 9 dB from constant noise sources such as fans or heating, ventilation, and air conditioning (HVAC) systems. A two-way high-fidelity loud speaker system provides superior speech clarity versus traditional conferencing systems.
Volume control	The convenient Volume Control buttons on Cisco Unified IP Conference Phone 8831 provide for easy, decibel-level adjustments for the speakerphone and ringer.
Quality-of-service (QoS) options	The Cisco Unified IP Conference Phone supports DHCP and 802.1Q/p standards. The conference station can also be configured with an 801.1Q VLAN header containing the VLAN ID overrides configured by the Admin VLAN ID.
Multiple ring tones	User-adjustable ring tones are available.
Security	The Cisco Unified IP Conference Phone 8831 supports device authentication through 802.1.x supplicant (TLS) and SRTP.

Feature	Specification
Language support	Arabic (Arabic Area) Bulgarian (Bulgaria) Catalan (Spain) Chinese (China) Chinese (Hong Kong) Chinese (Taiwan) Croatian (Croatia) Czech (Czech Republic) Danish (Denmark) Dutch (Netherlands) English (United Kingdom) Estonian (Estonia) French (France) Finnish (Finland) German (Germany) Greek (Greece) Hebrew (Israel) Hungarian (Hungary) Italian (Italy) Japanese (Japan) Latvian (Latvia) Lithuanian (Lithuania) Korean (Korea Republic) Norwegian (Norway) Polish (Poland) Portuguese (Portugal) Portuguese (Brazil) Romanian (Romania) Russian (Russian Federation) Spanish (Columbia) Spanish (Spain) Slovak (Slovakia) Swedish (Sweden) Serbian (Republic of Serbia) Serbian (Republic of Montenegro) Slovenian (Slovenia) Thai (Thailand) Turkish (Turkey)
Configuration options	You can configure IP address assignment statically or through the DHCP client.

Specifications

Table 3 gives specifications of the Cisco Unified IP Conference Phone 8831, Table 4 provides temperature ratings, and Table 5 lists certifications for the conference station.

Table 3. System Specifications

Category	Specification
Dimensions (H x W x D)	Base: 10.38 x 10.38 x 2.0 in. (15.05 x 26.35 x 5.08 cm) Control panel: 5.75 x 5.0 x 1.0 in. (14.61 x 12.7 x 2.54 cm) Microphones: 3.5 x 2.5 x 0.5 in. (8.89 x 6.35 x 1.27 cm) Charger tray: 6.5 x 4.5 x 0.75 in. (16.51 x 11.43 x 1.90 cm)

Category	Specification	
Weight	Base	3.50 lbs. (1,587.0 grams)
	DCU	0.56 lbs. (253.0 grams)
	Wired Microphones	0.15 lbs. (66.8 grams)
	Wireless Microphones	0.14 lbs. (64.7 grams)
	Charger	0.42 lbs. (191.9 grams)
Display	3.25 x 1.5 in. (8.26 x 3.81 cm); 396 x 162 pixels	
Phone casing composition	Polycarbonate acrylonitrile butadiene styrene (ABS) textured plastic	
Power requirements	The Cisco Unified IP Conference Phone 8831 is an interoperable IEEE 802.3af PoE (Class 3 device); 48 VDC is required; it can be supplied locally at the desktop using an optional AC-to-DC power supply (CP-PWR-CUBE-3=). Use of the power supply also requires the use of one of the corresponding AC country cords listed in Table 7 later in this document. Use of a power supply (CP-PWR-CUBE-3=) is required when using the Cisco Unified IP Conference Phone 8831 in a daisy-chain configuration.	

Table 4.   Temperature

Category	Range
Operational Temperature	32 to 104℉ (0 ~ 40℃)
Relative Humidity	10 to 95% (noncondensing)
Storage Temperature	14 to 140℉ (-10 to 60℃)

Note that products with the CE marking in Table 5 indicate compliance with the 2006/95/EC and 2004/108/EC directives, which include the safety and EMC standards listed.

Table 5.   Regulatory Standards Compliance: Safety and EMC

Specification	Description
Regulatory compliance	Products should comply with CE Marking per directives 2004/108/EC and 2006/95/EC
Safety	UL 60950-1 Second Edition Amd 1 CAN/CSA-C22.2 No. 60950-1 Second Edition Amd 1 EN 60950-1 Second Edition A11, A1, A12 IEC 60950-1 Second Edition Amd 1 AS/NZS 60950-1: 2011 GB4943 2011
EMC: Emissions	FCC Part 15 Subpart B Class B AS/NZS 3548 CISPR22 Class B EN55022 Class B ICES-003 Class B VCCI Class B KN22 Class B CNS13438 Class B
EMC: Immunity	EN55024 CISPR24 EN300386 KN24
EMC: Radio DECT	FCC Part 15 Subpart D IC RSS-213 EN 301 406
Telecom	AUS AS/ACIF S004 - Hands-free Send Frequency Response

Ordering Information

Tables 6, 7 and 8 give ordering information for the phone and power cord, respectively.

Table 6.   Ordering Information

Product Name	Part Number
CP-8831-K9=	Cisco Unified IP Conference Phone 8831 base unit and control panel
CP-8831-J-K9=	Cisco Unified IP Conference Phone 8831 base unit and control panel – Japan DECT Frequency
CP-8831-DC-K9= **CP-8831-DC-J-K9=**	*Optional Daisy Chain Kit extension for the Cisco Unified IP Conference Phone 8831. ● Cisco Unified IP Conference Phone 8831 Base Unit ● Daisy Chain Cable (25ft) *Optional Daisy Chain Kit extension for the Cisco Unified IP Conference Phone 8831– Japan DECT Frequency. ● Cisco Unified IP Conference Phone 8831 Base Unit ● Daisy Chain Cable (25ft)
CP-8831-MIC-WRLS=	*Optional Wireless Microphone Kit for Cisco Unified IP Conference Phone 8831 ● 2 DECT Wireless Microphones ● Charging Station for Microphones ● Power Supply
CP-MIC-WIRED-S=	*Optional Wired Microphone Kit for Cisco Unified IP Conference Phone 8831 ● 2 Wired microphones
CP-8831-DC-CBL=	*Optional Daisy Chain Cable for the Cisco Unified IP Conference Phone 8831. For Daisy Chaining 2 Cisco Unified IP Conference Phone 8831's together (25ft) *Not required if purchasing the Daisy Chain Kit (CP-8831-DC-S-K9)
CP-PWR-CUBE-3	Cisco Power Cube 3

Table 7.   Power Cords

Product Name	Part Number
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

Cisco Unified IP Phones and Conference Stations are covered by a Cisco standard 1-year replacement warranty.

Cisco Unified Communications Services

Cisco and our certified partners can help you deploy a secure, resilient Cisco Unified Communications solution, meeting aggressive deployment schedules and accelerating business advantage. Cisco's portfolio of services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks.

Cisco's unique lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle. Customized planning and design services focus on creating a solution that meets your business needs. Award-winning technical support increases operational efficiency. Remote-management services simplify day-to-day operations, and optimization services enhance solution performance as your business needs change.

More Information

For additional details on the Cisco Unified IP Conference Phone 8831, go to http://www.cisco.com/go/ipphones/8800.

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