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Cisco IP Phone 8861



The Cisco[®] IP Phone 8861 is a business-class collaboration endpoint that combines high-fidelity, reliable, secure, and scalable voice over IP communications with Cisco Intelligent Proximity for telephony integration for personal mobile devices to support small to large enterprise businesses.

With the IP Phone 8861, you can increase personal productivity through an engaging user experience that is both powerful and easy-to-use. The IP Phone 8861 combines an attractive new ergonomic design with wideband audio for crystal clear voice communications, "always-on" reliability, encrypted voice communications to enhance security, and access to a comprehensive suite of unified communications features from Cisco on-premises and hosted infrastructure platforms. The IP Phone 8861 also can be supported on third party hosted call control services.

In addition, Cisco Intelligent Proximity brings the worlds of desk and mobile together for you when you are using your mobile device at the desk for your work. You can move the audio path over to the IP Phone 8861 during active mobile calls to take advantage of its superior audio acoustics. An example would be to share a conversation with a colleague who you want to listen in. This capability gives you greater flexibility and a superior user experience when at your desk.

The IP Phone 8861 comes standard with two USB ports so you can charge your personal mobile devices when at your desk, and stay connected when away from your desk.

The Cisco IP Phone 8861 offers five programmable line keys. You can configure keys to support either multiple directory numbers or calling features such as speed dial. You can also boost productivity by handling multiple calls for each directory number using the multicall-per-line feature. Fixed-function keys give you one-touch access to applications, messaging, directory, as well as often-used calling features such as hold/resume, transfer, and conference. A five-way navigation cluster helps you transition through menus more easily. Backlit acoustic keys provide flexibility for audio path selection and switching.

Other key features of the phone include:

- The Cisco IP Phone 8861 offers a 5-in. high-resolution (800 x 480) widescreen VGA backlit color display. Localized language support, including right-to-left on-screen text, meets the needs of global users.
- The phone offers a built-in Gigabit Ethernet switch for both network connection and your PC connection.
- The phone also supports campuses with 802.11a/b/g/n/ac WLAN enabled.
- Support for Cisco EnergyWise[™] technology makes the Cisco IP Phone 8861 more energy-efficient and ecofriendly; the phone is qualified by the Energy Star organization.
- An optional wall-mount kit is orderable as a spare part for customers seeking this capability.
- Up to three optional IP Phone 8800 Key Expansion Modules can be supported for 108 additional line/feature keys.
- Charcoal and white color options.

Features and Benefits

Table 1 lists features and benefits of the Cisco IP Phone 8861.

Features	Benefits		
Hardware Features			
Ergonomic design	• The phone offers an easy-to-use interface and provides a traditional telephony-like user experience.		
Graphical display	 The 800 x 480, 24-bit color, 5-in. WVGA display provides scrollable access to calling features and text-based XML applications. 		
Handset	 The handset is a standard wideband-capable audio handset (connects through an RJ-9 port). The standard coiled cord has a custom end for concealed cable routing beneath the phone (cord length is approximately 21 in. [55 cm] coiled and up to 72 in. (183 cm) extended). The handset is hearing aid-compatible (HAC) and meets Federal Communications Commission (FCC) loudness requirements for the Americans with Disabilities Act (ADA). You can achieve Section 508 loudness requirements by using industry-standard inline handset amplifiers such as Walker Equipment W-10 or CE-100 amplifiers. The dial pad is also ADA-compliant. 		
Speaker phone	 The full-duplex speakerphone gives you flexibility in placing and receiving calls with hands free. For added security, the audible dual tone multifrequency (DTMF) tones are masked when the speakerphone mode is used. 		
Analog headset	• The analog headset jack is a standard wideband-capable RJ-9 audio port.		
AUX port	 You can use an auxiliary port to support electronic hookswitch control with a third-party headset connected to it. 		
External audio ports	 The phone has a 3.5-mm stereo line in/out jack (for optional external headset, speakers, or headphones). 		
USB	 Two USB ports enhance the usability of call handling by enabling wired or wireless headsets, as well as provide charging capability to mobile devices such as smartphones or tablets. A side USB port provides up to 500mA power output at 5V or 2.5W. A back USB (in yellow) port provides 500mA power output and is upgradeable to support up to 2.1A power output at 5V or 10.5W. 		
Ethernet switch	 An internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network (IEEE 802.3i/802.3u/802.3ab) through a RJ-45 interface with single LAN connectivity for both the phone and a co-located PC. The system administrator can designate separate VLANs (IEEE 802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic. 		
Bluetooth	 The phone offers Bluetooth 3.0 Enhanced Data Rate (EDR) Class 1 technology (up to 66-ft [20m] range). Hands-Free Profile (HFP) is supported for untethered headset connections and voice communications. Phone Book Access Profile (PBAP) is supported for phone book object exchange between devices. 		
Wi-Fi client	 As an alternative to wired Ethernet, the Cisco IP Phone 8861 supports a Wi-Fi radio with integrated antenna enabling connectivity to a Wi-Fi access-point infrastructure, thereby saving on the labor costs of pulling Ethernet cables to every work location. Complete Wi-Fi specifications are included in Table 4 		

Features	Benefits	
	later in this document.	
Keys	 The phone has the following keys: Line keys Soft keys Back and release keys Four-way navigation and select keys Four-way navigation and select keys Hold/Resume, Transfer, and Conference keys Messaging, Application, and Directory keys Standard keypad Volume-control toggle key Speakerphone, headset, and mute keys 	
Backlit indicator	• The phone supports backlit indicators for the audio path keys (handset, headset, and speakerphone), select key, line keys, and message waiting.	
Replaceable bezel	• The phone includes a black bezel; an optional silver bezel is also orderable separately.	
Dual-position foot stand	 The display is easy-to-view and the buttons and keys are easy-to-use. The two-position foot stand supports viewing angles of 35 and 50 degrees; you can remove the foot stand for wall mounting, with mounting holes located on the base of the phone. 	
Wall-mountable	• You can install the phone on a wall using an optional wall-mount kit (orderable separately).	
Key expansion module (KEM)	 The phone supports up to three KEMs to expand from 5- to 113-line buttons. You have the convenience of many speed dials or programmable features. 	
Physical security	• The phone is compatible with the Kensington Security Slot (K-Slot) antitheft system.	
Power Features		
IEEE Power over Ethernet (PoE)	 IEEE Power over Ethernet class 4. The phone is compatible with both IEEE 802.3af and 802.3at switch blades and supports both Cisco Discovery Protocol and Link Layer Discovery Protocol - Power over Ethernet (LLDP-PoE). 	
Cisco IP Phone Power Cube 4	• This optional power cube is used as an AC-to-DC (48V) power supply for non-PoE deployments. Use of the power cube 4 also requires the use of one of the corresponding AC country cords	
Call-Control Support		
Cisco Unified Communications Manager	 8.5.1 (Non-Secured mode Only) 8.6.2 9.1.2 10.5.2 11.0 and later 	
Cisco Unified Communications Manager Express (Unified CME)	10.0 and later through fast track	
Cisco Business Edition 6000 (BE 6000)	 8.6.2 9.1.2 10.5.2 11.0 and later 	
Cisco Hosted Collaboration Solution (HCS)	8.6.2 and later (using supported UCM versions above)	

Licensing

The Cisco IP Phone 8861 requires an Enhanced User Connect License (UCL) in order to connect to Cisco Unified Communications Manager.

Product Specifications

Table 2 lists the features and specifications of the Cisco IP Phone 8861.

 Table 2.
 Features and Specifications of Cisco IP Phone 8861

Features	Specifications
Audio codec support	 G.711 a-law and mu-law, G.722, G.729a, Internet Low Bitrate Codec (iLBC), and Internet Speech Audio Code (iSAC)
Key call features support	• + Dialing
	Abbreviated dialing
	Adjustable ring tones and volume levels
	Adjustable display brightness
	Agent greeting
	Auto-answer
	Auto-detection of headset
	• cBarge
	Busy Lamp Field (BLF)
	Busy Lamp Field (BLF) Pickup
	Busy Lamp Field (BLF) speed dial
	• Callback
	Call forward
	Call forward notification
	• Call filter
	Call history lists
	• Call park
	Call pickup
	Call timer
	Call waiting
	Call chaperone
	Caller ID
	Corporate directory Conference including traditional laip facture
	Conference, including traditional Join feature
	Cross Cluster Extension Mobility (EMCC)
	Direct transfer
	• Extension mobility
	• Fast-dial service
	Forced access codes and client matter codes
	Group call pickup
	• Hold
	• Intercom
	Immediate divert
	Malicious-caller ID
	Message-waiting indicator (MWI)
	Meet-me conference
	Mobility
	Music on hold (MoH)
	Mute
	Network profiles (automatic)
	On- and off-network distinctive ringing
	Personal directory
	PickUp
	Predialing before sending
	Privacy
	Private Line Automated Ringdown (PLAR)
	Redial
	Ring tone per line appearance

Features	Specifications
	Service URL
	Shared line
	Silent monitoring and recording
	Speed dial
	Time and date display
	• Transfer
	Uniform Resource Locator (URI) dialing
	Visual voice mail
	Voice mail
	Whisper coaching
Electronic hookswitch	• You can control the hookswitch electronically with a third-party headset connected to either the USB or auxiliary port, or directly paired with the phone through Bluetooth.
Cisco Intelligent	Audio path moving sends audio through the IP Phone 8861 for a mobile device-connected call.
Proximity	• Call history synchronization allows you to view placed and missed calls of your mobile device from the IP Phone
	8861.
	Contact synchronization allows you to synchronize the contact objects from your mobile device to your IP Phone 8861
Quality-of-service (QoS) options	• The phone supports Cisco Discovery Protocol and 802.1Q/p standards, and can be configured with an 801.1Q VLAN header containing the VLAN ID overrides configured by the Admin VLAN ID.
Network features	Session Initiation Protocol (SIP) for signaling
	Session Description Protocol (SDP)
	IPv4 and IPv6
	User Datagram Protocol (UDP) (used only for Real-Time Transport Protocol [RTP] streams)
	Dynamic Host Configuration Protocol (DHCP) client or static configuration
	Gratuitous Address Resolution Protocol (GARP)
	Domain Name System (DNS) Trivitel File Transfer Destroyal (TETD)
	Trivial File Transfer Protocol (TFTP) Secure Hypertext Transfer Protocol (HTTPS)
	Secure Hypertext Transfer Protocol (HTTPS) VLAN
	Real-Time Transport Protocol (RTP)
	Real-Time Control Protocol (RTCP)
	Cisco Peer-to-Peer Distribution Protocol (PPDP)
	Cisco Discovery Protocol
	LLDP (including LLDP-MED)
	Switch speed auto-negotiation
Security features	Secure boot
	Secure credential storage
	Device authentication
	Configuration file authentication and encryption
	Image authentication
	Random bit generation
	Hardware cryptographic acceleration
	Certificate Authority Proxy Function (CAPF)
	Manufacturer-Installed Certificates (MIC)
	Locally Significant Certificates (LSC)
	Ethernet 802.1x supplicant options: Extensible Authentication Protocol-Flexible Authentication via Secure Tunpeling (EAD EACT) and Extensible Authentication Protocol Trapport Layor Security (EAD TI S)
	Tunneling (EAP-FAST) and Extensible Authentication Protocol-Transport Layer Security (EAP-TLS)
	Signaling authentication and encryption using TLS Media authentication and encryption using SRTP
	 Media authentication and encryption using SRTP HTTPS for client and server
	Secure Shell (SSH) Protocol server
	Secure Sockets Layer (SSL)-based VPN client
Physical dimensions (H × W × D)	 9.02 x 10.13 x 1.57 in. (229.1 x 257.34 x 40 mm) (exclude foot stand)
Weight	• 2.62 lb (1.19 kg)

Features	Specifications
Phone-casing composition	Polycarbonate acrylonitrile butadiene styrene (ABS) textured plastic; Cosmetic class A
Operational temperature	• 32 to 104°F (0 to 40°C)
Nonoperational temperature shock	• 14 to 140°F (-10 to 60°C)
Humidity	Operating 10 to 90%, noncondensingNonoperating 10 to 95%, noncondensing
Language support	 Arabic (Arabic Area) Bulgarian (Bulgaria) Catalan (Spain) Chinese (China) Chinese (China) Chinese (Taiwan) Croatian (Croatia) Czech (Czech Republic) Danish (Denmark) Dutch (Netherlands) English (United Kingdom) Estonian (Estonia) French (France) French (France) French (Graada) Finnish (Finland) German (Germany) Greek (Greece) Hebrew (Israel) Japanese (Japan) Latvian (Latvia) Lithuanian (Lithuania) Korean (Korea Republic) Norwegian (Norway) Polish (Poland) Portuguese (Brazil) Romanian (Romania) Russian Federation) Spanish (Columbia) Spanish (Columbia) Spanish (Columbia) Stovak (Stovakia) Swedish (Swedin) Serdian (Republic of Serbia) Serdian (Republic of Montenegro) Slovenian (Slovenia) Turkish (Turkey)
Certification and compliance	 Regulatory compliance CE Markings per directives 2004/108/EC and 2006/95/EC Safety UL 60950 Second Edition CAN/CSA-C22.2 No. 60950 Second Edition EN 60950 Second Edition (including A11 & A12) IEC 60950 Second Edition (including A11 & A12)
	 AS/NZS 60950 GB4943

Features	Specifications
	EMC - Emissions
	 47CFR Part 15 (CFR 47) Class B
	 AS/NZS CISPR22 Class B
	 CISPR22: 2005 w/Amendment 1: 2005 Class B
	 EN55022: 2006 w/Amendment 1: 2007 Class B
	ICES003 Class B
	VCCI Class B
	 EN61000-3-2
	 EN61000-3-3
	 KN22 Class B
	EMC - Immunity
	• EN55024
	CISPR24
	 EN60601-1-2
	• KN24
	Armadillo Light
	• Telecom
	FCC Part 68 HAC
	• CS-03-HAC
	AS/ACIF S004
	 AS/ACIF S040
	• NZ PTC 220
	 Industry Standards: TIA 810 and TIA 920
	 Industry Standards: IEEE 802.3 Ethernet, IEEE 802.3af and 802.3at
	 Korea (RRA Public Notification 2010-36, Nov 01, 2010)
	 Korea (RRA Announce 2011-2, Feb28, 2011)
	Radio
	 FCC Part 15.247 (CFR 47)
	 FCC Part 2.1093 (BT RF Exposure TR)
	 RSS-102 (BT RF Exposure TR)
	∘ RSS-210
	 EN 300.328
	 EN50385 (BT RF Exposure TR)
	 EN 301-489-1
	 EN 301-489-17
	 EN 301-893
	• NCC LP0002
	 Korea (RRL No. 2006-128, RRL No. 2006-129)
	 Japan Bluetooth GFSK/EDR

Table 3 gives the Wi-Fi features and specifications of the Cisco IP Phone 8861.

Table 3. Wi-Fi Features and Specifications

Feature	Specifications
Protocols	IEEE 802.11a, 802.11b, 802.11g, 802.11n, and 802.11ac
Frequency bands and operating channels	 2.412-2.472 GHz (channels 1-13) 5.180-5.240 GHz (channels 36-48) 5.260-5.320 GHz (channels 52-64) 5.500-5.700 GHz (channels 100-140) 5.745-5.825 GHz (channels 149-165) IEEE 802.11d is used to identify available channels.

Feature	Specifications		
Non-overlapping channels	 2.4 GHz (20-MHz channels): Up to 3 channels 5 GHz (20-MHz channels): Up to 24 channels 5 GHz (40-MHz channels): Up to 9 channels 5 GHz (80-MHz channels): Up to 4 channels 		
Operating modes	 Auto (default), preference to strong 2.4 GHz only 5 GHz only 	gest RSSI for 2.4 or 5 GHz	
Data rates	 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps 802.11b: 1, 2, 5.5, and 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps 802.11g: HT MCS 0, MCS 1, MCS 2, MCS 3, MCS 4, MCS 5, MCS 6, and MCS 7 802.11ac: VHT MCS 0, MCS1, MCS 2, MCS 3, MCS 4, MCS 5, MCS 6, MCS 7, MCS 8, and MCS 9 (MCS9 available with VHT40 and VHT80 only) 		
2.4-GHz receiver sensitivity	IEEE 802.11b: • 1 Mbps: -98 dBm • 2 Mbps: -96 dBm • 5.5 Mbps: -93 dBm • 11 Mbps: -91 dBm	IEEE 802.11g: • 6 Mbps: -95 dBm • 9 Mbps: -94 dBm • 12 Mbps: -93 dBm • 18 Mbps: -90 dBm • 24 Mbps: -87 dBm • 36 Mbps: -84 dBm • 48 Mbps: -79 dBm • 54 Mbps: -77 dBm	IEEE 802.11n HT20: • MCS 0: -95 dBm • MCS 1: -92 dBm • MCS 2: -90 dBm • MCS 3: -87 dBm • MCS 4: -83 dBm • MCS 5: -78 dBm • MCS 6: -77 dBm • MCS 7: -75 dBm
5-GHz receiver sensitivity	IEEE 802.11a: • 6 Mbps: -94 dBm • 9 Mbps: -93 dBm • 12 Mbps: -92 dBm • 18 Mbps: -89 dBm • 24 Mbps: -86 dBm • 36 Mbps: -83 dBm • 48 Mbps: -78 dBm • 54 Mbps: -76 dBm	IEEE 802.11n HT20: • MCS 0: -94 dBm • MCS 1: -91 dBm • MCS 2: -89 dBm • MCS 3: -86 dBm • MCS 4: -82 dBm • MCS 5: -77 dBm • MCS 6: -76 dBm • MCS 7: -74 dBm	IEEE 802.11n HT40: • MCS 0: -91 dBm • MCS 1: -88 dBm • MCS 2: -86 dBm • MCS 3: -83 dBm • MCS 4: -79 dBm • MCS 5: -75 dBm • MCS 6: -73 dBm • MCS 7: -72 dBm
	IEEE 802.11ac VHT20: MCS 0: -93 dBm MCS 1: -90 dBm MCS 2: -87 dBm MCS 3: -84 dBm MCS 4: -81 dBm MCS 5: -76 dBm MCS 6: -75 dBm MCS 7: -74 dBm MCS 8: -70 dBm	IEEE 802.11ac VHT40: • MCS 0: -90 dBm • MCS 1: -87 dBm • MCS 2: -85 dBm • MCS 3: -82 dBm • MCS 4: -79 dBm • MCS 5: -73 dBm • MCS 6: -72 dBm • MCS 7: -72 dBm • MCS 8: -67dBm • MCS 9: -66 dBm	IEEE 802.11ac VHT80: MCS 0: -87 dBm MCS 1: -83 dBm MCS 2: -81 dBm MCS 3: -78 dBm MCS 4: -75 dBm MCS 5: -73 dBm MCS 6: -68 dBm MCS 7: -68 dBm MCS 8: -64 dBm MCS 9: -62 dBm
Transmitter output power	2.4 GHz: • 802.11b: Up to 17 dBm • 802.11g: Up to 14 dBm • 802.11n HT20: Up to 13 dBm		5 GHz: • 802.11a: Up to 14 dBm • 802.11n HT20: Up to 13 dBm • 802.11n HT40: Up to 13 dBm • 802.11ac VHT20: Up to 12 dBm • 802.11ac VHT40: Up to 12 dBm • 802.11ac VHT80: Up to 12 dBm
Antenna	 2.4 GHz: 3.2-dBi peak gain 5 GHz: 2.4-dBi peak gain 		

Feature	Specifications	
Access point support	 Cisco Unified Access Points Minimum: 7.0.240.0 Recommended: 7.4.121.0, 7.6.110.0, or later Cisco Autonomous Access Points Minimum: 12.4(21a)JY Recommended: 12.4(25d)JA2 or later Cisco Meraki[®] Access Points 	
Wireless security	 Authentication: Wi-Fi Protected Access (WPA) Versions 1 and 2 Personal and Enterprise Extensible Authentication Protocol - Flexible Authentication via Secure Tunneling (EAP-FAST) Protected Extensible Authentication Protocol - Microsoft Challenge Handshake Authentication Protocol Version 2 (PEAP-MSCHAPv2) 	 Encryption: 40-bit and 128-bit static Wired Equivalent Privacy (WEP) Temporal Key Integrity Protocol (TKIP) and Message Integrity Check (MIC) Advanced Encryption Standard (AES)
Fast secure roaming	802.11r (FT)Cisco Centralized Key Management (Cisco CKM)	·
QoS	 IEEE 802.11e and Wi-Fi Multimedia (WMM) Traffic Specification (TSPEC) Traffic Classification (TCLAS) Enhanced Distributed Channel Access (EDCA) QoS Basic Service Set (QBSS) 	

Product Specifications

Table 4 gives ordering information for the phone and its accessories.

Table 4. Ordering Information

Product Number	Description
CP-8861-K9=	Cisco IP Phone 8861, Charcoal
CP-8861-W-K9=	Cisco IP Phone 8861, White
CP-DX-HS=	Spare Handset for Cisco IP Phone 7800, 8800, DX600 Series, Charcoal
CP-DX-CORD=	Spare Handset Cord for Cisco IP Phone 8800, DX600 Series, Charcoal
CP-DX-W-HS=	Spare Handset for Cisco IP Phone 7800, 8800, DX600 Series, White
CP-DX-W-CORD=	Spare Handset Cord for Cisco IP Phone 8800, DX600 Series, White
CP-BEKEM=	Key Expansion Module for Cisco IP Phone 8800 Series, Charcoal
CP-BEKEM-W=	Key Expansion Module for Cisco IP Phone 8800 Series, White
CP-8800-WMK=	Spare Wallmount Kit for Cisco IP Phone 8800 Series
CP-8800-BEKEM-WMK=	Spare Wallmount Kit for Cisco IP Phone 8800 Series with single KEM
CP-8800-FS=	Spare Foot stand for Cisco IP Phone 8800 Series
CP-8800-B-BEZEL=	Spare Black Bezel for Cisco IP Phone 8800 Series
CP-8800-S-BEZEL=	Spare Silver Bezel for Cisco IP Phone 8800 Series
CP-PWR-CUBE-4	Cisco Power Cube 4
CP-PWR-CORD-AP=	Power Cord Asia Pacific
CP-PWR-CORD-AR=	Power Cord Argentina
CP-PWR-CORD-AU=	Power Cord Australia
CP-PWR-CORD-BZ=	Power cord for Brazil
CP-PWR-CORD-CE=	Power Cord European
CP-PWR-CORD-CN=	Power Cord China

Product Number	Description
CP-PWR-CORD-JP=	Power Cord Japan
CP-PWR-CORD-NA=	Power Cord North America
CP-PWR-CORD-SW=	Power Cord Switzerland
CP-PWR-CORD-UK=	Power Cord United Kingdom

Warranty

The Cisco IP Phone 8861 phones are covered by a Cisco standard 1-year replacement warranty.

Cisco Unified Communications Services

Cisco and our certified partners can help you set up a secure, dependable 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.

Our unique lifecycle approach to services defines what's needed at each phase of the solution lifecycle. Customized planning and design services help you create a solution that meets your business needs. Award-winning technical support helps you boost your operational efficiency. Remote management services simplify day-to-day operations. And optimization services let you modify and improve your network solution when business needs change.

Cisco Capital

Financing to Help You Achieve Your Objectives

Cisco Capital can help you acquire the technology you need to achieve your objectives and stay competitive. We can help you reduce CapEx. Accelerate your growth. Optimize your investment dollars and ROI. Cisco Capital financing gives you flexibility in acquiring hardware, software, services, and complementary third-party equipment. And there's just one predictable payment. Cisco Capital is available in more than 100 countries. Learn more.

More Information

For additional details about the Cisco IP Phone 8800 Series, go to http://www.cisco.com/go/ipphones/8800.



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