Cisco IP Phone 8865 Data Sheet

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Contents

Would you like to increase your personal productivity with an engaging experience that is powerful and easy-to-use? The business-class Cisco® IP Phone 8865 combines high-fidelity voice and entry to HD video communications with Cisco Intelligent Proximity for telephony integration with your personal mobile devices.

The IP Phone 8865 combines an attractive new ergonomic design with 720p HD video and wideband audio for crystal-clear voice communications, "always-on" reliability. Encrypted voice communications for enhanced security. And access to a comprehensive suite of unified communications features.

In addition, with Cisco Intelligent Proximity you can use your desk and mobile phones together when you are at your desk. During mobile calls you can move the audio path over to the 8865 for better acoustics. You then could share a conversation with a colleague who listens in. This capability gives you greater flexibility and a superior user experience when at your desk.

The 8865 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 IP Phone 8865 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 phone 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 Wireless LAN (WLAN) enabled.

- An optional wall-mount kit is orderable as a spare part for customers who want this capability.

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Features and benefits

Table 1 lists features and benefits of the Cisco IP Phone 8865.

Table 1. Features and benefits

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 × 480, 24-bit color, 5-in. WVGA display provides scrollable access to calling features and text-based XML applications
Audio	• Automatic Gain Control • Comfort Noise Generation • Silence Suppression/Voice Activity Detection • Acoustic Echo Cancellation (AEC) • Dynamic Noise Reduction
Audio codec support	• G.711 a-law and mu-law, G.722, G.729a/b, Internet Low Bitrate Codec (iLBC), and Internet Speech Audio Codec (iSAC), G.722.1, G.772.2, OPUS
Video	• 720p HD video (encode and decode) • H.264 and Cisco Application Visibility and Control (AVC)
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
Speakerphone	• 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, in addition to providing 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 upgradable 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 an 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

Features	Benefits
Bluetooth	• The phone offers Bluetooth 4.1 LE, 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 8865 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 3 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
	  ◦ 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 is supported. The phone is compatible with IEEE 802.3af, 802.3at and UPOE 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

Features	Benefits
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)	• Planned to be supported in 11.5
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 Cisco Unified UCM versions listed previously)

Licensing

The Cisco IP Phone 8865 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 IP Phone 8865.

Table 2.   Features and specifications of Cisco IP Phone 8865

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 Codec (iSAC)
Key call features support	• + Dialing • Abbreviated dialing • Adjustable ring tones and volume levels • Adjustable display brightness • Agent greeting • Application launch pad • Auto-answer • Auto-detection of headset • cBarge • Busy Lamp Field (BLF) • BLF Pickup • BLF speed dial • Callback • Call forward

Features	Specifications
	• 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 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 • Service URL • Shared line • Silent monitoring and recording • Speed dial • Time and date display • Transfer • Uniform Resource Identifier (URI) dialing • Visual Voicemail • Voicemail • Whisper coaching

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Features	Specifications
Mobility and remote access	You can deploy the phones remotely with the following two options: • You can have your phone remotely registered to the on-premises network through a built-in VPN client if the administrator has provisioned this VPN feature • You also can directly connect to the on-premises network without VPN through Cisco Expressway if you are provided with log-in credentials. Contact your system administrator
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 Proximity	• Audio path moving sends audio through the phone for a mobile device-connected call • Call-history synchronization allows you to view placed and missed calls of your mobile device from the 8865 • Contact synchronization allows you to synchronize the contact objects from your mobile device to your 8865
Quality-of-Service (QoS) options	• The phone supports Cisco Discovery Protocol and 802.1Q/p standards, and you can configure it 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) • Trivial File Transfer Protocol (TFTP) • Secure HTTP (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 Media Endpoint Discovery [LLDP-MED]) • Switch speed auto-negotiation

Features	Specifications
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 Tunneling (EAP-FAST) and Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) • Signaling authentication and encryption using TLS • 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)	• 9.01 x 10.13 x 3.87 in. (228.78 x 257.34 x 98.39 mm) (excluding foot stand)
Weight	• 2.97 lb (1.35 kg)
Phone-casing composition	• Polycarbonate Acrylonitrile Butadiene Styrene (ABS) textured plastic; Cosmetic class A
Operating temperature	• 32 to 104°F (0 to 40°C)
Nonoperating temperature shock	• 14 to 140°F (–10 to 60°C)
Humidity	• Operating 10 to 90%, noncondensing • Nonoperating 10 to 95%, noncondensing
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 (Canada) • French (France) • Finnish (Finland) • German (Germany)

Features	Specifications
	• 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)
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 and A12)
	◦ IEC 60950 Second Edition (including A11 and A12)
	◦ AS/NZS 60950
	◦ GB4943
	• 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

Features	Specifications
	◦ 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. 1, 2010)
	◦ Korea (RRA Announce 2011-2, Feb. 28, 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 8865.

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 149-161) IEEE 802.11d is used to identify available channels.
Nonoverlapping 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

Feature	Specifications		
Operating modes	• Auto (default), preference to strongest RSSI for 2.4 or 5 GHz • 2.4 GHz only • 5 GHz only		
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 • 802.11n: 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 (MCS 9 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

Feature	Specifications	
Transmitter output power	2.4 GHz: • 802.11b: Up to 17 dBm • 802.11g: Up to 16 dBm • 802.11n HT20: Up to 13 dBm	5 GHz: • 802.11a: Up to 16 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: 2.08-dBi peak gain • 5 GHz: 1.88-dBi peak gain	
Access-point support	• Cisco Wireless Access Points ◦ Minimum: 7.0.240.0 ◦ Recommended: 7.4.121.0, 7.6.110.0, or later • Cisco Aironet Access Points in Autonomous Mode ◦ 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 • EAP-FAST • Protected Extensible Authentication Protocol – Microsoft Challenge Handshake Authentication Protocol Version 2 (PEAP-MSCHAPv2)	Encryption: • 40- 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 (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)	
Radar detection	Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) according to IEEE 802.11h	

Ordering information

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

Table 4.   Ordering information

Product Number	Description
CP-8865-K9=	Cisco IP Phone 8865, Charcoal
CP-8865-W-K9=	Cisco IP Phone 8865, 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-8800-V-KEM =	Key Expansion Module for Cisco IP Phone 8800 Series, Charcoal
CP-8800-VIDEO-WMK=	Spare Wallmount Kit for Cisco IP Phone 8800 Video Series
CP-8800-FS=	Spare Foot stand for Cisco IP Phone 8800 Series
CP-8800-B-VID-BEZEL=	Spare Black Bezel for Cisco IP Phone 8800 Video Series
CP-8800-S-VID-BEZEL=	Spare Silver Bezel for Cisco IP Phone 8800 Video 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
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 8865 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

Flexible payment solutions to help you achieve your objectives

Cisco Capital makes it easier to get the right technology to achieve your objectives, enable business transformation and help you stay competitive. We can help you reduce the total cost of ownership, conserve capital, and accelerate growth. In more than 100 countries, our flexible payment solutions can help you acquire hardware, software, services and complementary third-party equipment in easy, predictable payments. Learn more.

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