Cisco 8800 Series IP Phone Datasheet

CONTENT

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OVERVIEW

The Cisco IP Phone 8800 Series is a great fit for businesses of all sizes seeking secure, high-quality, full-featured VoIP. Select models provide affordable entry to HD video and support for highly-active, in-campus mobile workers. This advanced series provides flexible deployment options: on premises, cloud and Cisco pre-approved third-party UCaaS providers.

APPEARANCE

Figure 1. Cisco IP Phone 8800 Series

KEY FEATURES AND BENEFITS

IP Phones for a variety of needs

•The 8800 Series is ideal for knowledge workers, administrative and executive staff. It works well in open workspaces, large conference rooms and executive offices and with actively mobile workers within a campus. Choice of two user experiences add flexibility.

More phones, more options

• Select models support 720p HD desktop video collaboration, telephony feature integration with personal mobile devices, optional key expansion modules and wired/wireless expansion microphones for conference rooms.

Simple, cost-effective administration

• Flexible deployment options help you cut costs and maximize your investment. Remote workers get single sign-on access with Cisco Expressway. Latest encryption secures communications. Cisco EnergyWise helps reduce costs in off-work hours.

PRODUCT SPECIFICATIONS OF CISCO IP PHONE 8800 SERIES

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
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

Bluetooth	● The phone offers Bluetooth 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. 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
Cisco Power Injector	● 8865 is compatible with Cisco Aironet Power Injector AIR_PWRINJ6=, which can provide an alternative POE solution when the LAN switch doesn't support POE and the customer mandates one RJ45 cable to the table strategy.
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)
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 ● 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
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 LLDPMedia Endpoint Discovery [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 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) - 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
- ○ 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

CISCO IP PHONE 8800 SERIES BASIC ORDERING INFORMATION

Part #	Product Description
CP-8811-3PCC-K9=	Cisco IP Phone 8811 shipped with multiplatform phone firmware
CP-8831-3PCC-K9=	Cisco IP Phone 8831 shipped with multiplatform phone firmware
CP-8841-3PCC-K9=	Cisco IP Phone 8841 shipped with multiplatform phone firmware
CP-8851-3PCC-K9=	Cisco IP Phone 8851 shipped with multiplatform phone firmware
CP-8861-3PCC-K9=	Cisco IP Phone 8861 shipped with multiplatform phone firmware
CP-BEKEM-3PCC=	Cisco IP Key Expansion Module for multiplatform phones
Part Numbers for Remote Configuration: **Notes:** ● Available via drop ship orders only. These part numbers are not available from Tier-2 distribution warehouse stocking inventory.	
CP-8811-3PC-RC-K9=	Cisco IP Phone 8811 shipped with multiplatform phone firmware, for remote configuration
CP-8841-3PC-RC-K9=	Cisco IP Phone 8841 shipped with multiplatform phone firmware, for remote configuration
CP-8851-3PC-RC-K9=	Cisco IP Phone 8851 shipped with multiplatform phone firmware, for remote configuration
CP-8861-3PC-RC-K9=	Cisco IP Phone 8861 shipped with multiplatform phone firmware, for remote configuration
Part Numbers for gift boxes that contain the phone along with the Power Cube and Cord: **Notes:** ● Available in May 2017 and in the USA and Canada only.	
CP-8811-3PW-NA-K9=	Cisco IP Phone 8811 shipped with multiplatform phone firmware, and with a Power Cube and a power cord for North America

Part #	Product Description
CP-8821-3PW-NA-K9=	Cisco IP Phone 8821 shipped with multiplatform phone firmware, and with a Power Cube and a power cord for North America
CP-8841-3PW-NA-K9=	Cisco IP Phone 8841 shipped with multiplatform phone firmware, and with a Power Cube and a power cord for North America
CP-8861-3PW-NA-K9=	Cisco IP Phone 8861 shipped with multiplatform phone firmware, and with a Power Cube and a power cord for North America
CP-8811-K9	Cisco IP Phone CP-8811-K9, widescreen grayscale display, High-quality Voice Communication, easy to use, cisco EnergyWise, cost-effective
CP-8821-K9	Cisco Wireless IP Phone 8821 is a ruggedized, resilient, and secure 802.11 wireless LAN handset that delivers cost-effective, on-premises, comprehensive voice over wireless LAN (VoWLAN) communications for the highly mobile in-campus worker.
CP-8831-K9=	Cisco Unified IP Conference Phone 8831 base unit and control panel
CP-8841-K9	Cisco IP Phone CP-8841-K9, widescreen VGA, High-quality Voice Communication, easy to use, cisco EnergyWise
CP-8845-K9	CP-8845-K9 Cisco 8800 IP Phone
CP-8851-K9	Cisco IP Phone CP-8851-K9, BYOD, widescreen VGA, Bluetooth, High-quality Voice Communication
CP-8861-K9	Cisco IP Phone CP-8861-K9, BYOD, widescreen VGA, Wi-FI, Bluetooth, High-quality Voice Communication
CP-8865-K9	CP-8865-K9 Cisco 8800 IP Phone

SOURCES

https://www.cisco.com/c/en/us/products/collaboration-endpoints/unified-ip-phone-8800-series/index.html?stickynav=1