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Cisco IP Phone 7800 Series

The Cisco[®] IP Phone 7800 Series is a cost-effective, high-fidelity voice communications portfolio designed to improve your organization's people-centric communications, while reducing your operating costs.

It combines an attractive new ergonomic design with "always-on" reliability and secure encrypted communications. The Cisco[®] IP Phone 7800 Series delivers advanced IP Telephony features and crystal clear wideband audio performance to deliver an easy-to-use, full-featured voice communications experience.

The Cisco[®] IP Phone 7800 Series introduces three models to the Cisco IP Phone portfolio. From left-to-right (Figure 1), they are:

- The IP Phone 7821 supporting two lines
- The IP Phone 7841 supporting four lines
- The IP Phone 7861 supporting sixteen lines

Figure 1. Cisco IP Phone 7800 Series





The line keys on each model are fully programmable. You can set up keys to support either lines, such as directory numbers, or call features like speed dialing. You can also boost productivity by handling multiple calls for each directory number, using the multi-call per-line appearance feature. Tri-color LEDs on the line keys support this feature and make the phone simpler and easy to use.

Fixed function keys on all models give you one-touch access to service, messaging, directory, hold/resume, transfer, and conference features. A full-duplex speakerphone lets you set up clear multi-party conferences for flexible, productive collaboration.

The Cisco[®] IP Phone 7800 Series sets a new standard in usability and delivers a context-sensitive user experience. It features a high resolution 3.5" (396x162) greyscale display, with white backlighting for easy reading. Localized language support, including right-to-left onscreen text, meets the needs of global users.

The Cisco[®] IP Phone 7800 Series is also more energy-efficient and eco-friendly, to support your green initiatives. Each phone supports Power-over-Ethernet (PoE) Class 1 and Cisco's EnergyWise[™], and is Energy Star certified. A standard power-save option reduces power consumption during off-hours, to save money and maximize energy efficiency.

The IP Phone 7800 Series portfolio is ideal for any mid-sized to large enterprise company that wants to update its phone system from a traditional analog or digital-based system to an IP Communications system. It's also an excellent choice if you're seeking to expand your voice communications support with your current Cisco Unified Communications solution.

Features and Benefits

Table 1 lists features and benefits of the Cisco[®] IP Phone 7800 Series

Features	Benefits
Hardware Features	
Ergonomic design	• The phone offers an easy-to-use interface and provides a traditional telephony-like user experience.
Graphical display	 White backlit, greycale, 396x162 pixel-based display (3.5") provides scrollable access to calling features and text-based XML applications.

Table 1. Features and Benefits

Features	Benefits
Handset	 The handset is a standard wideband-capable audio handset (connects through an RJ-9 port). 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.
Headset	• The analog headset jack is a standard wideband-capable RJ-9 audio port.
Backlit Indicator	• The phone supports backlit indicators for the audio path keys (handset, headset and speakerphone), select key, line keys, and message waiting.
Volume control	• A volume-control toggle provides easy decibel-level adjustments of the handset, monitor speaker, and ringer.
Full duplex speakerphone	• Full-duplex speakerphone allows gives you flexibility in placing and receiving calls.
Replaceable bezel	 Phone includes a black bezel. Optional silver bezel is also available 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 30 degrees and 45 degrees; you can remove the foot stand for wall mounting, with mounting holes located on the base of the phone.
Wall-mountable	• The phone can be installed on a wall using optional wall-mount kit (available separately).
Electronic hook switch	• The hookswitch can be controlled electronically with a third party headset connected to the auxiliary port.
Keys	 The phone has the following keys Line keys Soft-keys Two-way navigation and select keys Hold/Resume, Transfer and Conference keys Messaging, Service and Directory keys Standard key pads Volume control toggle key Speakerphone, headset and mute keys
Power Features	
IEEE PoE class 1	• The phone supports IEEE 802.3af PoE (Class 1); power consumption does not exceed 3.84 watts.
Cisco power cube 3	• This power cube is used as a standard Cisco IP Phone Power Supply for non-PoE deployments.
Call-Control Support	
Cisco Unified Communications Manager	 8.5.1 8.6.2 9.1.2 10.x and later
Cisco Business Edition 6000	 8.6.2 9.1.2 10.x and later
Cisco Hosted Collaboration Solution	8.6.2 and later (using supported UCM versions above)
Cisco Unified Survivable Remote Site Telephony	• 8.x and later

Licensing

The Cisco[®] IP Phone 7821 requires a Basic User Connect License (UCL) in order to connect to Cisco Unified Communications Manager. The Cisco[®] IP Phone 7841 and 7861 require 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 7800 Series.

 Table 2.
 Features and Specifications

Features	Specifications
Signaling protocol support	Session Initiation Protocol (SIP)
Codec support	• G.711a/ μ , G.722, G.729a, iLBC
Key call features support	• + Dialing (E.164)
	Abbreviated dial
	Adjustable ringing and volume levels
	Adjustable display contrast
	Agent greeting
	Auto-answer
	Auto-detection of headset
	• Busy Lamp Field (BLF)
	• Call back
	Call forward
	Call history
	• Call park
	• Call Pickup
	Call timer
	Call waiting
	Caller ID
	• cBarge
	Corporate directory
	Conference
	Cross Cluster Extension Mobility (EMCC)
	Dial from the list
	Direct transfer
	Do not disturb
	• Extension Mobility (EM)
	• Forced access codes and client matter codes
	Group call pickup
	Hold/resume
	Immediate divert
	Intercom
	• Join
	Message-waiting indicator
	Meet me conference
	Mobility
	Music on hold
	Mute
	 Network profiles (automatic)
	On- and off-network distinctive ringing
	Personal directory
	Privacy
	 Private Line Automated Ringdown (PLAR)
	Redial
	Ring tone per line appearance
	Shared line
	Silent monitoring and recording
	Speed dial
	Time and date display
	• Transfer
	Voicemail

Features	Specifications
	Whisper coaching
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)
	Slovak (Slovakia) Swodish (Swodan)
	 Swedish (Sweden) Serbian (Republic of Serbia)
	Serbian (Republic of Serbia) Serbian (Republic of Montenegro)
	Slovenian (Slovenia)
	Thai (Thailand)
	• Turkish (Turkey)
Multiple sing tenes	
Multiple ring tones	The phone supports user-adjustable ring tones.
Directories	 The phone identifies incoming messages and categorizes them for users on the screen. This makes it fast and easy to return calls using direct dial-back capability. The corporate directory integrates with the Lightweight Directory Access Protocol (LDAP) standard directory.
Quality-of-service (QoS) options	 The phone supports CDP 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.
Security	Certificates
	Image authentication
	Device authentication
	• File authentication
	Signaling authentication
	 Media encryption using Secure Real-Time Transfer Protocol (SRTP) using AES-128
	• Signaling encryption using Transport Layer Security (TLS) Protocol using AES-128 or AES-256
	Encrypted configuration files
	802.1X authentication
	• Cryptography

Features	Specifications
Configuration options	 The user can configure IP address assignment statically or through the DHCP client.
Physical dimensions (H×W×D)	 CP-7821: 207 x 206 x 28mm (exclude foot stand) CP-7841: 207 x 206 x 28mm (exclude foot stand) CP-7861: 207 x 265 x 28mm (exclude foot stand)
Weight	 CP-7821: 867g CP-7841: 868g CP-7861: 1053g
Display	• 3.5" 396×162 pixels
Ethernet switch	 The phone has a 10/100BASE-T (The Cisco[®] IP Phone 7821 & 7861) or a10/100/1000BASE-T (The Cisco[®] IP Phone 7841) Ethernet connection through two RJ-45 ports, one for the LAN connection and the other for a downstream Ethernet device connection like a PC.
Phone casing composition	Polycarbonate acrylonitrile butadiene styrene (ABS) textured plastic.
Power requirements	 The phone is an interoperable IEEE 802.3af PoE (Class 1 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.
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%, non-condensing Non-operating 10% to 95%, non-condensing
Cosmetic	Cisco cosmetic class A
Certification and compliance	 Regulatory Compliance CE Markings per directives 2004/108/EC and 2006/95/EC Safety UL 60950 Second Edition CA/VCSA-C22.2 No. 60950 Second Edition EN 60950 Second Edition (including A11 & A12) IEC 60950 Second Edition (including A11 & A12) IEC 60950 Second Edition (including A11 & 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 EN5022: 2006 w/Amendment 1: 2007 Class B ICES003 Class B VCCI Class B EN61000-3-2 EN61000-3-2 EN61000-3-3 KN22 Class B EMC - Immunity EN55024 CISPR24 EN66001-1-2 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: EEEE 802.3 Ethernet, IEEE 802.3af and 802.3at

Product Specifications

Table 3 gives ordering information for the phone and its accessories.

 Table 3.
 Ordering Information

Product Number	Description
CP-7821-K9=	Cisco IP Phone 7821
CP-7841-K9=	Cisco IP Phone 7841
CP-7861-K9=	Cisco IP Phone 7861
CP-7821-W-K9=	Cisco IP Phone 7821, White
CP-7841-W-K9=	Cisco IP Phone 7841, White
CP-7861-W-K9=	Cisco IP Phone 7861, White
CP-DX-HS=	Spare Handset for Cisco IP Phone 7800 Series
CP-7800-HS-CORD=	Spare Handset Cord for Cisco IP Phone 7800 Series
CP-7800-HS-HOOK=	Spare Handset Hook for Cisco IP Phone 7800 Series, 20 Pieces
CP-7800-WMK=	Spare Wallmount Kit for Cisco IP Phone 7800 Series
CP-7861-WMK=	Spare Wallmount Kit for Cisco IP Phone 7861
CP-7800-FS=	Spare Foot stand for Cisco IP Phone 7800 Series
CP-7861-FS=	Spare Foot stand for Cisco IP Phone 7861
CP-7821-B-BEZEL=	Spare Black Bezel for Cisco IP Phone 7821
CP-7821-S-BEZEL=	Spare Silver Bezel for Cisco IP Phone 7821
CP-7841-B-BEZEL=	Spare Black Bezel for Cisco IP Phone 7841
CP-7841-S-BEZEL=	Spare Silver Bezel for Cisco IP Phone 7841
CP-7861-B-BEZEL=	Spare Black Bezel for Cisco IP Phone 7861
CP-7861-S-BEZEL=	Spare Silver Bezel for Cisco IP Phone 7861
CP-PWR-CUBE-3	Cisco Power Cube 3
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 7800 Series 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. Awardwinning technical support helps you boost your operational efficiency. Remote management services simplify dayto-day operations. And optimization services let you modify and improve your network solution when business needs change.

More Information

For additional details on the Cisco[®] IP Phone 7800 Series, go to http://www.cisco.com/go/ipphones/7800.



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