

Cisco IP DECT 6800 Series



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The Cisco® IP DECT 6800 Series is a cost-effective, multi-cell, high-fidelity DECT voice communications portfolio designed to improve your organization's person-to-person communications while reducing your operating costs on approved Unified-Communications-as-a-Service (UCaaS) platforms.

Product Overview

Cisco IP DECT Phone 6800 Series Product Overview

The Cisco IP DECT Phone 6825 Handset is designed for use with the Cisco IP DECT 210 Multi-Cell Base Station. Together, these products enable the convenience of a cordless DECT on-premises mobility solution for Voice-over-IP (VoIP) service. The Cisco IP DECT Phone 6800 Series offers a mobility-enhanced handset, designed primarily for business environments that require a cordless phone to support, not just one, but multiple telephone numbers or lines. It provides a highly innovative VoIP solution for users who tend to frequently move about in their locations but must always be reachable around the premises.

With a new, intuitive, easy-to-use menu structure on the DECT 6825 Handset you can easily navigate enhanced business call-control features, including multi-call operation, and execute business-essential features such as call transfer, conferencing, hold, new call, mute, speakerphone, voicemail, intercom, and one-touch dial-out from call-history logs. Wideband audio provides unsurpassed high-definition voice quality and enhanced sound clarity while the high-resolution color screen provides clear visual information, whether it is reflecting call status, displaying stored contact information from a private or shared phonebook, or configuring handset calling features. Superior performance and range, along with highly efficient battery power usage based on Digital Enhanced Cordless Telecommunication (DECT) technology gives the Cisco IP DECT Phone 6800 Series a distinct advantage and provides an affordable solution for customers who want to deploy on-premises mobility at a lower price point.

The Cisco IP DECT 6825 Handset is ideal for any residential, home office, or business searching for an advanced, multiline cordless mobility solution with superior voice quality to boost efficiency for busy users who must be reachable, whether they are in the office or elsewhere on the premises.

Cisco IP DECT 210 Multi-Cell Base Station

The Cisco IP DECT 210 Multi-Cell Basestation allows for up to 250 integrated base stations, maintaining up to 1000 SIP registrations and 2000 calls. The 210 Basestation allows you to start with a small deployment and pay as you grow, adding base stations to extend range and capacity. The 210 Basestation is supported in the follow frequency ranges:

- 1880 - 1895 (Taiwan)
- 1880 - 1900 MHz (Australia and New Zealand - reduced power 22 dBm)
- 1880 - 1900 MHz (E.U. and APAC)
- 1910 - 1930 MHz (LATAM and Argentina)
- 1910 - 1920 MHz (Brazil and Uruguay)
- 1910 - 1920 MHz (Uruguay - reduced power 140 mW)
- 1910 - 1930 MHz (Chile - reduced power 22 dBm)
- 1920 - 1930 MHz (U.S. and Canada)

Each handset is programmed to the one of the frequency ranges above when registering a Basestation for the first time.

Cisco IP DECT Phone 6825 Handset Features and Benefits

Table 1. Features and Benefits for Cisco IP DECT 6825 Handset

| Feature | Benefits |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hardware features | |
| Ergonomic design | An easy-to-use interface that provides a traditional Digital Enhanced Cordless Telecommunication (DECT) telephony-like user experience |
| Graphical display | 2 in. 240 x 320 pixels 64K TFT display 3-color MWI LED |
| Handset (HAC) | <ul style="list-style-type: none"> • All 6825 Handsets are Hearing-Aid-Compatible (HAC) and meet Federal Communications Commission (FCC) loudness requirements for the Americans with Disabilities Act (ADA) • You can meet Section 508 loudness requirements by using industry-standard inline handset amplifiers such as Walker Equipment W-10 or CE-100 amplifiers • HAC compliant - FCC part 68 and Australia S040 |
| Headset | Bluetooth LE 3.5 mm wired headset, iPhone compliant The 6800 series provides exceptional noise isolation when used with a Cisco 500 Series Headset |
| Volume control | A volume-control toggle provides easy decibel-level adjustments of the handset, monitor speaker, and ringer |
| Full-duplex speakerphone | A full-duplex speakerphone gives you flexibility in placing and receiving calls. For added security, the Audible Dual-Tone Multi-frequency (DTMF) tones are masked when the speakerphone mode is used |
| Handset charging cradle | The charging cradle holds the phone in a single position. The charging cradle comes with a USB Type-A connector to directly connect the power adapter of your choice (see ordering information in Table 6 in this document). The charging adapter is 5V, 2A |
| Wall-mountable | The handset is wall-mountable, with a separate orderable SKU |
| Keys | 28 total keys 0-9, # and * keys 3 soft keys Five-way navigation and select Answer and end call keys 1 alarm key on top of the device Volume up and down keys Mute key Speakerphone key Menu key |

| Feature | Benefits |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power | Battery type: Lithium Ion rechargeable Cradle charging time: 6 hours Talk time: 17 hours (NB), 12 hours (WB) Idle time: 200 hours Adaptor plugs: E.U., U.S., Australia, U.K. (other countries available; see ordering information in Table 6) |
| Full lines supported | 6825: 2 lines (SIP registrations) |
| CODECs | 6825 Handset: G722 codec for HD audio G726 codec for narrow band audio HD audio speakerphone |
| Language support | <ul style="list-style-type: none"> • Croatian • Czech • Danish • Dutch • English (American) • English (United Kingdom) • French (France) • German • Italian • Norwegian • Polish • Portuguese (Portugal) • Serbian (Republic of Serbia) • Serbian (Republic of Montenegro) • Spanish (Spain) • Slovak • Swedish • Slovenian • Turkish |
| Multiple ring tones | <ul style="list-style-type: none"> • The phones support user-adjustable ring tones |
| Security | CAT-iq 2.1 security support |
| Physical dimensions (H x W x D) | <ul style="list-style-type: none"> • 6825: 4.6 in. x 1.8 in. x 0.78 in. (117 mm x 46 mm x 20 mm) |
| Weight | 6825: 3 oz. (86 g) |
| Display | 6825: 2.0 in. (5.0 cm), 240 x 320 pixels, 64K TFT display |
| Phone casing composition | Polycarbonate Acrylonitrile Butadiene Styrene (ABS) textured plastic |
| Power requirements | 6825 Handset Cradle: 5V/2A, Type USB-A for power and additional power adapter for charging the handset. Interoperable optional AC-to-DC country-specific power supplies (such as the CP-6825-PWR-NA= for North America) |

| Feature | Benefits |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational temperature | 32° to 113° F (0° to 45° C) |
| Nonoperational temperature shock | 14° to 140° F (-10° to 60° C) |
| Humidity | <ul style="list-style-type: none"> • Operating 10% to 90%, noncondensing • Non-operating 10% to 95%, noncondensing |
| DECT certification and compliance for 6825 | <ul style="list-style-type: none"> • Regulatory compliance: <ul style="list-style-type: none"> ◦ CE Markings per directives 2014/30/EU and 2014/35/EU • Safety: <ul style="list-style-type: none"> ◦ IEC60950-1:2005 (2nd Edition); AM1:2009 (CE, U.S. and Canada) ◦ EN60950-1:2006/ A1:2010 + A11:2009 +A1 2010 +A12: 2011 +A2: 2013 (Australia and New Zealand) ◦ CB Certificate ◦ UL 62368-1 (U.S., Canada) ◦ UL 60950-1 (U.S., Canada) ◦ EU EMC EN301489-1 V2.2.0, EN 301489-6 V2.2.0, EN 301 489-3 v2.1.1 and EN 301 489-17 v3.2.0 (CE) ◦ EU SAR EN/IEC 61109-1/-2 including EN50360: A1 2010, EN 50385: 2002 (CE) ◦ EU RF EN301406 V2.2.2, EN 300 328 v2.1.1; EN 301 893 v2.1.1 and EN 300 440 v2.1.1 (CE) ◦ AU EMC (CISPR 32) ◦ AU Safety AS/NZS 60950-1:2011 ◦ AU SAR EN/IEC 62209-1 (same as EU) ◦ US FCC Part 15D ◦ US FCC ID certificate ◦ US SAR OET 65 IEEE 1528 ◦ CA ICES-003 Issue 5:2012 ◦ CA RSS-213 Issue 2:2015 ◦ CA IC certificate ◦ CA RSS-102 (SAR) ◦ CA IC REL registration • EMC - Emissions <ul style="list-style-type: none"> ◦ 47CFR Part 15 (CFR 47) Class B ◦ AS/NZS CISPR32:2015 Class B ◦ CISPR 32: 2015_COR1:2016 Class B ◦ EN55032: 2015+AC:2016 ◦ ICES003 Class B ◦ EN61000-3-2:2014 and IEC 61000-3-2:2014 ◦ EN61000-3-3:2013 and IEC61000-3-3:2013 ◦ VCCI Class B • EMC - Immunity <ul style="list-style-type: none"> ◦ EN55024 ◦ CISPR24 • Telecom <ul style="list-style-type: none"> ◦ FCC Part 68 HAC ◦ CS-03-HAC ◦ AS/ACIF S004 ◦ AS/ACIF S040 ◦ NZ PTC 220 • Bluetooth <ul style="list-style-type: none"> ◦ EU EMC EN 301489-17 V3.2.0 |

| Feature | Benefits |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> ◦ EN301489-1 V2.2.0 for BT ◦ AU RF AS/NZS 4268:2012 ◦ US FCC Part 15.247 for BT ◦ CA RSS-247 • Industry standards: IEEE 802.3 Ethernet, IEEE 802.3af • Industry standards: Cat IQ 2.1 compliant |



Figure 1.
Cisco IP DECT 6825 Handset

Cisco IP DECT 210 Multi-Cell Basestation Features and Benefits

Table 2 lists the features and benefits of the 210 Multi-Cell Base Station.

Table 2. Features and Benefits of the Cisco IP DECT 210 Multi-Cell Base Station

| Feature | Detail |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unit Capacity | <ul style="list-style-type: none"> • One basestation can support 30 SIP registrations, 10 Narrowband calls or 5 Wideband calls concurrently |
| Multi-Cell System Capacity | <ul style="list-style-type: none"> • Up to 250 basestations, supporting up to 2000 concurrent calls, 1000 SIP registrations |
| Audio | <ul style="list-style-type: none"> • Codecs: G.711 (A-law and mu-law), G.722.2, G.726, G.729 (a and ab) |
| Dimensions | <ul style="list-style-type: none"> • DECT 210 Basestation- 4.75 in. x 4.75 in. x 1.2 in. (121 mm x 121 mm x 31 mm) |
| Weight | <ul style="list-style-type: none"> • DECT 210 Basestation - 6 oz (167g) • DECT 210 Basestation with stand - 8.2 oz (231g) |
| Network | <ul style="list-style-type: none"> • MAC address (IEEE 802.3) • SIP protocol support (RFC 3261 and companion RFCs) • IPv4 (RFC 791) • IPV6 (RFC 2460): System interoperability testing required • DNS: A record (RFC 1706), SRV record (RFC 2782) • Dynamic Host Configuration Protocol (DHCP) (RFC 2131) • Simple Network Time Protocol (SNTP) (RFC 2030) • Network Address Translation (NAT) traversal, serial tunnel (STUN) |

| Feature | Detail |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • User Datagram Protocol (UDP) / Transmission Control Protocol (TCP) • Link Layer Discovery Protocol (LLDP) |
| Ethernet | <ul style="list-style-type: none"> • Internal Single Port - 10/100 BASE-T IEEE 802.3 • Power over Ethernet (PoE) - minimum IEEE 802.3: Power class 2 (3.84 – 6.49W) |
| Security | <ul style="list-style-type: none"> • Certificates • Transport Layer Security (TLS) • Media encryption via Secure Real-Time Transport Protocol (SRTP) • Encrypted configuration files • Digest authentication • Password-protect handset • HTTPs secure provisioning • Secure call |
| Call control and audio features | <ul style="list-style-type: none"> • Make a call over any line • Receive a call over any line • Auto-answer • Barge call (shared line) • Redial • Do not disturb • Anonymous call • Anonymous call rejection • Caller ID • Hold / resume • Three-way conference • Attended transfer • Blind transfer • Call swap (to/from) • Call transfer • Call forwarding • Call waiting • Call park • Call hold / resume • Call return • Shared line / multi-line • Key lock • Emergency call • Narrowband / wideband codecs • DTMF dialing • Distinctive ringing • Ringtone selection • Ringer volume control • Receiver volume control • Phonebook search, import, export • Call history (up to 50 entries) • Local phonebook • Remote phonebook / Lightweight Directory Access Protocol (LDAP) |

| Feature | Detail |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ul style="list-style-type: none"> • Cisco BroadWorks® Directory • Speed dial • Voicemail • Message waiting indicator • Full duplex speakerphone • SRTP • HTTPS • Support for provisioning / upgrade |
| Directory | <ul style="list-style-type: none"> • 250 entries • Local phonebook • XML / LDAP remote directory • Cisco BroadSoft® directory • Call history (missed, placed, and received), up to 50 entries |
| Management | <ul style="list-style-type: none"> • Configuration: Browser, phone, auto-provision • Auto-provision via TFTP, HTTP, or HTTPS for mass deployment • Packet capture |



Figure 2.
Cisco IP DECT 210 Multi-Cell Base Station

Platform Support

Table 3 lists the multiplatform software supported by the Cisco IP DECT 210 Multi-Cell Base Station.

Table 3. Features and Benefits for Multiplatform Phone Firmware

| Platforms supported | Certifications |
|-----------------------------------|-----------------------------------------------------------------------------|
| Asterisk | Interoperability tested – Release (1.8+) |
| Cisco BroadSoft BroadWorks | Interoperability tested and certified – Releases 19sp1, 20sp1, 21sp1, 22sp1 |
| Cisco BroadCloud® | Interoperability tested and certified |

| Platforms supported | Certifications |
|---------------------|---------------------------------------------------------------------------------------------------|
| Centile | Cisco 210 Base Station: Support with Centile is a road mapped item and not supported at this time |
| Metaswitch | Interoperability Tested – Release 9.4 |

Licensing

The Cisco IP DECT Phone 6800 Series is covered by the [Cisco End User License Agreement](#).

Ordering Information

Table 4 provides ordering information for the phones and their accessories.

Table 4. Ordering Information

| Part number | Product description |
|--------------------|------------------------------------------------------------------------------------------------------------|
| CP-6825-3PC-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, No Power Adapter |
| CP-6825-3PC-NA-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, North American Power Adapter |
| CP-6825-3PC-CE-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, European Union Power Adapter |
| CP-6825-3PC-AU-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Australia and New Zealand Power Adapter |
| CP-6825-3PC-UK-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, United Kingdom Power Adapter |
| CP-6825-3PC-AR-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Argentina Power Adapter |
| CP-6825-3PC-BZ-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Brazil Power Adapter |
| CP-6825-3PC-LA-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Latin American Power Adapter |
| CP-6825-3PC-TW-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Taiwan Power Adapter |
| CP-6825-3PC-UR-K9= | Cisco IP DECT Phone 6825, Standard Handset, Battery, Cradle, 3PCC, Uruguay Power Adapter |
| CP-682x-WMK= | Wall mount kit for Cisco IP Phone 6800 Series |
| CP-6825-HC= | Cisco IP DECT Phone 6825, Handset Cradle |
| CP-6825-BAT= | Cisco IP DECT Phone 6825, Li-Ion Battery |
| CP-682X-PWR-NA= | Cisco IP DECT Phone 6825, Power adapter for North America |
| CP-682X-PWR-CE= | Cisco IP DECT Phone 6825, Power adapter for Europe Union |

| Part number | Product description |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| CP-682X-PWR-AU= | Cisco IP DECT Phone 6825, Power adapter for Australia and New Zealand |
| CP-682X-PWR-UK= | Cisco IP DECT Phone 6825, Power adapter for United Kingdom |
| CP-682X-PWR-AR= | Cisco IP DECT Phone 6825, Power adapter for Argentina |
| CP-682X-PWR-BZ= | Cisco IP DECT Phone 6825, Power adapter for Brazil |
| CP-682X-PWR-LA= | Cisco IP DECT Phone 6825, Power adapter for Latin America |
| CP-682X-PWR-TW= | Cisco IP DECT Phone 6825, Power adapter for Taiwan |
| CP-682X-PWR-UR= | Cisco IP DECT Phone 6825, Power adapter for Uruguay |
| CP-6825-3PC-BUN-NA | Cisco IP DECT Phone Bundle, Cisco IP DECT 6825 Handset and Multi-Cell Basestation with power adapters for North America |
| CP-6825-3PC-BUN-UK | Cisco IP DECT Phone Bundle, Cisco IP DECT 6825 Handset and Multi-Cell Basestation with power adapters for United Kingdom |
| CP-6825-3PC-BUN-CE | Cisco IP DECT Phone Bundle, Cisco IP DECT 6825 Handset and Multi-Cell Basestation with power adapters for European Union |
| CP-6825-3PC-BUN-AU | Cisco IP DECT Phone Bundle, Cisco IP DECT 6825 Handset and Multi-Cell Basestation with power adapters for Australia and New Zealand |
| DBS-210-3PC-NA-K9= | Cisco IP DECT Basestation210 Series, 3PCC, U.S. and Canada, 1920 - 1930 MHz |
| DBS-210-3PC-CE-K9= | Cisco IP DECT Basestation210 Series, 3PCC, European Union and APAC, 1880 - 1900 MHz |
| DBS-210-3PC-AU-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Australia and New Zealand, 1880 - 1900 MHz - Reduced power 22dBm |
| DBS-210-3PC-LA-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Latin America and Argentina, 1910 - 1930 MHz |
| DBS-210-3PC-TW-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Taiwan, 1880 - 1895 MHz |
| DBS-210-3PC-BZ-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Brazil, 1910 - 1920 MHz |
| DBS-210-3PC-UR-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Uruguay, 1910 - 1920 MHz, 140mW |
| DBS-210-3PC-CL-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Chile, 1910 - 1930 MHz, 22dBm |
| DBS-210-3PC-UK-K9= | Cisco IP DECT Basestation210 Series, 3PCC, United Kingdom, 1880 - 1900 MHz |
| DBS-210-3PC-AR-K9= | Cisco IP DECT Basestation210 Series, 3PCC, Argentina, 1910 - 1930 MHz |

Warranty

The Cisco IP DECT Phone 6800 Series is covered by a [one-year limited hardware warranty](#).

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More Information

For additional details on Cisco Multi-Platform Endpoints, go to

[\[https://www.cisco.com/c/en/us/products/collaboration-endpoints/ip-phone-6800-series/index.html\]](https://www.cisco.com/c/en/us/products/collaboration-endpoints/ip-phone-6800-series/index.html)

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