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## Overview

The Cisco IP Phone 7821 is designed for small to large businesses. It delivers advanced IP Telephony features and crystal clear wideband audio performance to deliver an easy-to-use, full-featured voice communications experience on Cisco on-premises and hosted infrastructure platforms and third party hosted call control.

### Quick Specs

Figure 1 shows the appearance of the CP-7821-K9.



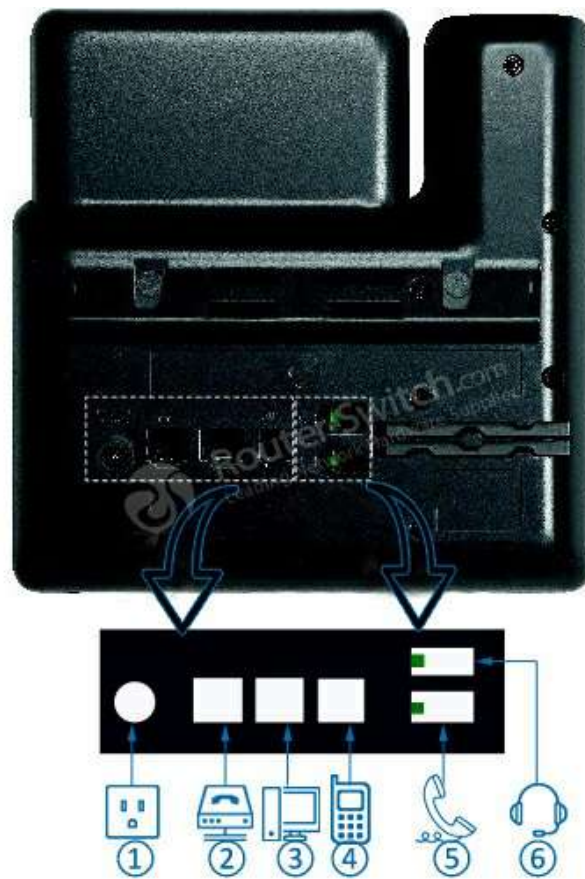
Table 1 shows the Quick Spec.

Product Code	CP-7821-K9
Screen	384 x 106 pixel (3.28 in. / 83.3 mm)
Ethernet Switch	10/100
Programmable Line Keys	2
Full Duplex Speakerphone	Yes
Number of Line Keys	2
Wideband Audio	Yes
PoE Class	1
Third-party Call Control	Yes
Replaceable Bezel	Yes
Package Weight	1.7 Kg

### Product Details

Before you use the Cisco IP Phone 7821, it should be connected to the corporate IP telephony network.

Figure 2 shows the bottom ports of this IP Phone.



Note:

- (1) AC power wall plug (optional)
- (2) Network port (10/100 SW) connection. IEEE 802.3af power enabled
- (3) Access port (10/100 PC) connection
- (4) Auxiliary port (optional)
- (5) Handset connection
- (6) Analog headset connection (optional)

**Figure 3** shows the buttons and hardware.



Note:

- (1) Handset light strip    (2) Programmable feature buttons    (3) Phone screen    (4) Softkey buttons    (5) Navigation and Select button    (6) Hold/Resume button
- (7) Conference button    (8) Transfer button    (9) Speakerphone button    (10) Headset button    (11) Mute button
- (12) Keypad
- (13) Volume button    (14) Contacts button    (15) Applications button    (16) Messages button    (17) Handset

Figure 4 shows the unboxing view of CP-7821-K9.



## Compare to Similar Items

Table 2 shows the comparison of Cisco IP Phone 7811, 7821, 7841 and 7861.

Model	CP-7811-K9	CP-7821-K9	CP-7841-K9	CP-7861-K9
Ethernet switch	10/100	10/100	10/100/1000	10/100
Programable line keys	0	2	4	16
Number of Line Keys	0	2	4	16

Full duplex speakerphone	Yes (narrowband)	Yes	Yes	Yes
PoE Class	1	1	1	1
Third-party call control	Planned	Yes	Yes	Yes
Replaceable bezel	N/A	Yes	Yes	Yes

## Solution

How to use this product to build Network for Small Business (Requires Router & Voice Module)?

See here: [SMB Network Options](#)

## Get more information

Do you have any question about the Cisco IP Phone 7821/K9?

Contact us now via [Live Chat](#) or [sales@router-switch.com](mailto:sales@router-switch.com).

## Specification

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CP-7821-K9 Specifications	
Signaling protocol support	<ul style="list-style-type: none"> <li>● Session Initiation Protocol (SIP)</li> </ul>
Codec support	<ul style="list-style-type: none"> <li>● G.711a/μ, G.722, G.729a, iLBC</li> </ul>

## 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 (Not available on the IP Phone 7811)
- Busy Lamp Field (BLF) (Not available on the IP Phone 7811)
- 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 (Not available on the IP Phone 7811)
- Join (Not available on the IP Phone 7811)
- 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
- Whisper coaching

<b>Language support</b>	<ul style="list-style-type: none"> <li>● Arabic (Arabic Area)</li> <li>● Bulgarian (Bulgaria)</li> <li>● Catalan (Spain)</li> <li>● Chinese (China)</li> <li>● Chinese (Hong Kong)</li> <li>● Chinese (Taiwan)</li> <li>● Croatian (Croatia)</li> <li>● Czech (Czech Republic)</li> <li>● Danish (Denmark)</li> <li>● Dutch (Netherlands)</li> <li>● English (United Kingdom)</li> <li>● Estonian (Estonia)</li> <li>● French (France)</li> <li>● Finnish (Finland)</li> <li>● German (Germany)</li> <li>● Greek (Greece)</li> <li>● Hebrew (Israel)</li> <li>● Hungarian (Hungary)</li> <li>● Italian (Italy)</li> <li>● Japanese (Japan)</li> <li>● Latvian (Latvia)</li> <li>● Lithuanian (Lithuania)</li> <li>● Korean (Korea Republic)</li> <li>● Norwegian (Norway)</li> <li>● Polish (Poland)</li> <li>● Portuguese (Portugal)</li> <li>● Portuguese (Brazil)</li> <li>● Romanian (Romania)</li> <li>● Russian (Russian Federation)</li> <li>● Spanish (Columbia)</li> <li>● Spanish (Spain)</li> <li>● Slovak (Slovakia)</li> <li>● Swedish (Sweden)</li> <li>● Serbian (Republic of Serbia)</li> <li>● Serbian (Republic of Montenegro)</li> <li>● Slovenian (Slovenia)</li> <li>● Thai (Thailand)</li> <li>● Turkish (Turkey)</li> </ul>
<b>Multiple ring tones</b>	<ul style="list-style-type: none"> <li>● The phone supports user-adjustable ring tones.</li> </ul>
<b>Directories</b>	<ul style="list-style-type: none"> <li>● 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.</li> </ul>
<b>Quality-of-service (QoS) options</b>	<ul style="list-style-type: none"> <li>● 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.</li> </ul>
<b>Security</b>	<ul style="list-style-type: none"> <li>● Certificates</li> <li>● Image authentication</li> <li>● Device authentication</li> <li>● File authentication</li> <li>● Signaling authentication</li> <li>● Media encryption using Secure Real-Time Transfer Protocol (SRTP) using AES-128</li> <li>● Signaling encryption using Transport Layer Security (TLS) Protocol using AES-128 or AES-256</li> <li>● Encrypted configuration files</li> <li>● 802.1X authentication</li> <li>● Cryptography</li> </ul>
<b>Configuration options</b>	<ul style="list-style-type: none"> <li>● The user can configure IP address assignment statically or through the DHCP client.</li> </ul>
<b>Physical dimensions (H×W×D)</b>	<ul style="list-style-type: none"> <li>● IP Phone 7821: 207 x 206 x 28mm (exclude foot stand)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>● IP Phone 7821: 867g</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>● IP Phone 7821: 3.5" 396×162 pixels</li> </ul>
<b>Ethernet switch</b>	<ul style="list-style-type: none"> <li>● The phone has a 10/100BASE-T or a 10/100/1000BASE-T</li> </ul>
<b>Phone casing composition</b>	<ul style="list-style-type: none"> <li>● Polycarbonate acrylonitrile butadiene styrene (ABS) textured plastic.</li> </ul>
<b>Power requirements</b>	<ul style="list-style-type: none"> <li>● 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.</li> </ul>

<b>Operational temperature</b>	<ul style="list-style-type: none"> <li>● 32 to 104°F (0 to 40°C)</li> </ul>
<b>Nonoperational temperature shock</b>	<ul style="list-style-type: none"> <li>● 14 to 140°F (-10 to 60°C)</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>● Operating 10% to 90%, non-condensing</li> <li>● Non-operating 10% to 95%, non-condensing</li> </ul>
<b>Cosmetic</b>	<ul style="list-style-type: none"> <li>● Cisco cosmetic class A</li> </ul>
<b>Certification and compliance</b>	<ul style="list-style-type: none"> <li>● Regulatory Compliance <ul style="list-style-type: none"> <li>○ CE Markings per directives 2004/108/EC and 2006/95/EC</li> </ul> </li> <li>● Safety <ul style="list-style-type: none"> <li>○ UL 60950 Second Edition</li> <li>○ CAN/CSA-C22.2 No. 60950 Second Edition</li> <li>○ EN 60950 Second Edition (including A11 &amp; A12)</li> <li>○ IEC 60950 Second Edition (including A11 &amp; A12)</li> <li>○ AS/NZS 60950</li> <li>○ GB4943</li> </ul> </li> <li>● EMC - Emissions <ul style="list-style-type: none"> <li>○ 47CFR Part 15 (CFR 47) Class B</li> <li>○ AS/NZS CISPR22 Class B</li> <li>○ CISPR22: 2005 w/Amendment 1: 2005 Class B</li> <li>○ EN55022: 2006 w/Amendment 1: 2007 Class B</li> <li>○ ICES003 Class B</li> <li>○ VCCI Class B</li> <li>○ EN61000-3-2</li> <li>○ EN61000-3-3</li> <li>○ KN22 Class B</li> </ul> </li> <li>● EMC - Immunity <ul style="list-style-type: none"> <li>○ EN55024</li> <li>○ CISPR24</li> <li>○ EN60601-1-2</li> <li>○ KN24</li> <li>○ Armadillo Light</li> </ul> </li> <li>● Telecom <ul style="list-style-type: none"> <li>○ FCC Part 68 HAC</li> <li>○ CS-03-HAC</li> <li>○ AS/ACIF S004</li> <li>○ AS/ACIF S040</li> <li>○ NZ PTC 220</li> <li>○ Industry Standards: TIA 810 and TIA 920</li> <li>○ Industry Standards: IEEE 802.3 Ethernet, IEEE 802.3af and 802.3at</li> </ul> </li> </ul>

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