



Cisco IP Phone Hardware

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Cisco IP Phone Hardware Overview

The Cisco IP Phone provides voice communication over an Internet Protocol (IP) network. The Cisco IP Phone functions much like a digital business phone, and allows you to place and receive phone calls and to access features such as mute, hold, transfer, speed dial, call forward, and more. In addition, because the phone connects to your data network, it offers enhanced IP telephony features, such as access to network information and services, and customizable features and services.

The Cisco IP Phone 7841 supports Gigabit ethernet connectivity.

When adding features to the phone line keys, you are limited by the number of line keys available. You cannot add more features than the number of line keys on your phone.

Table 1: Cisco IP Phone 7800 Series and Supported Line Keys

Phone	Supported Line Keys
Cisco IP Phone 7811	0
Cisco IP Phone 7821	2
Cisco IP Phone 7841	4
Cisco IP Phone 7861	16

A Cisco IP Phone, like other network devices, must be configured and managed. These phones encode G.711 a-law, G.711 mu-law, G.722, G.722.2/AMR-WB, G.729a, G.729ab and iLBC codecs; and decode G.711 a-law, G.711 mu-law, G.722, G.722.2/AMR-WB, G.729a, G.729ab and iLBC codecs.

**Caution**

Use of a cell, mobile, or GSM phone, or two-way radio in close proximity to a Cisco IP Phone might cause interference. For more information, see the manufacturer documentation of the interfering device.

Cisco IP Phones provide traditional telephony functionality, such as call forwarding and transferring, redialing, speed dialing, conference calling, and voice messaging system access. Cisco IP Phones also provide a variety of other features.

As with other network devices, you must configure Cisco IP Phones to prepare them to access Third-Party Call Control system and the rest of the IP network. By using DHCP, you have fewer settings to configure on a phone. If your network requires it, however, you can manually configure information such as: an IP address, TFTP server, and subnet information.

Cisco IP Phones can interact with other services and devices on your IP network to provide enhanced functionality. For example, you can integrate Third-Party Call Control system with the corporate Lightweight Directory Access Protocol 3 (LDAP3) standard directory to enable users to search for coworker contact information directly from their IP phones. You can also use XML to enable users to access information such as weather, stocks, quote of the day, and other web-based information.

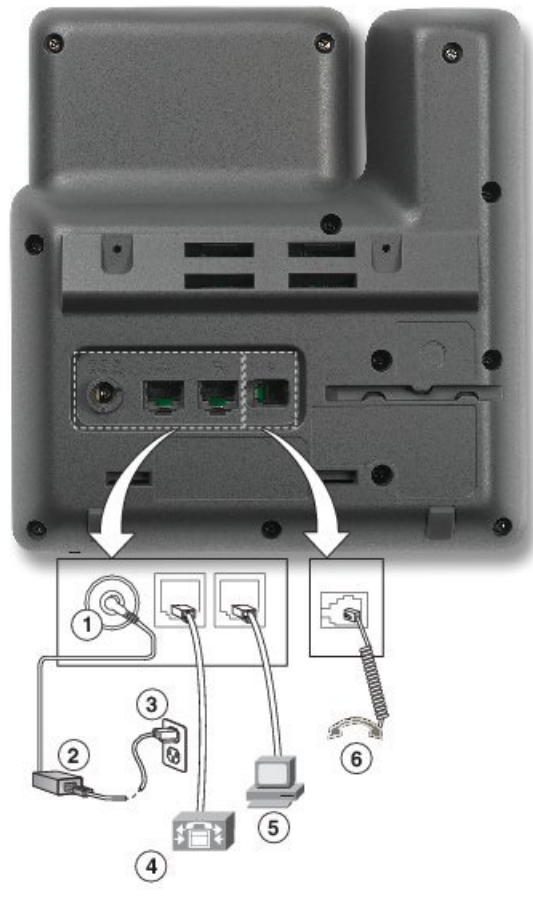
Finally, because the Cisco IP Phone is a network device, you can obtain detailed status information from it directly. This information can assist you with troubleshooting any problems users might encounter when using their IP phones. You can also obtain statistics about a current call or firmware versions on the phone.

To function in the IP telephony network, the Cisco IP Phone must connect to a network device, such as a Cisco Catalyst switch. You must also register the Cisco IP Phone with a Third-Party Call Control system before sending and receiving calls.

Cisco IP Phone 7811

Phone Connections

Use an Ethernet cable to connect your phone to your LAN and enable the phone's full functionality. If your Ethernet port is equipped with Power over Ethernet (PoE), you can power the phone through the LAN port. Do not extend the LAN Ethernet cable outside the building. For your phone to work, it must be connected to the IP telephony network.



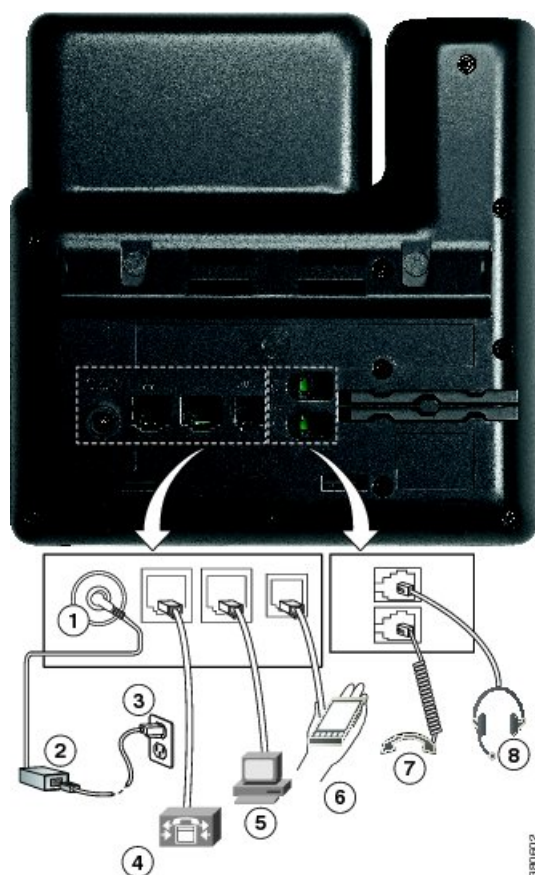
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1	DC adapter port (DC48V).	4	Network port (10/100 SW) connection. IEEE 802.3af power enabled.
2	AC-to-DC power supply (optional).	5	Access port (10/100 PC) connection (optional).
3	AC power wall plug (optional).	6	Handset connection.

Cisco IP Phone 7821

Phone Connections

Connect your Cisco IP phone to your LAN with an Ethernet cable to enable full functionality of your Cisco IP phone. If your Ethernet port is equipped with Power over Ethernet (PoE), you can power the Cisco IP phone through the LAN port. Do not extend the LAN Ethernet cable outside the building. For your phone to work, it must be connected to the IP telephony network.

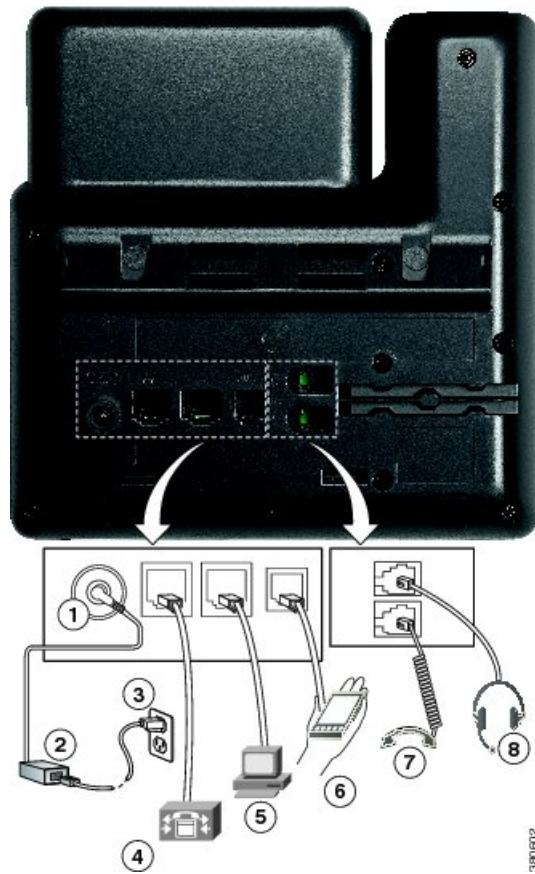


1	DC adaptor port (DC48V) (optional).	5	Access port (10/100 PC) connection (optional).
2	AC-to-DC power supply (optional).	6	Auxiliary port (optional).
3	AC power wall plug (optional).	7	Handset connection.
4	Network port (10/100 SW) connection. IEEE 802.3af power enabled.	8	Analog headset connection (optional).

Cisco IP Phone 7841

Phone Connections

Connect your Cisco IP phone to your LAN with an Ethernet cable to enable full functionality of your Cisco IP phone. If your Ethernet port is equipped with Power over Ethernet (PoE), you can power the Cisco IP phone through the LAN port. Do not extend the LAN Ethernet cable outside the building. For your phone to work, it must be connected to the IP telephony network.

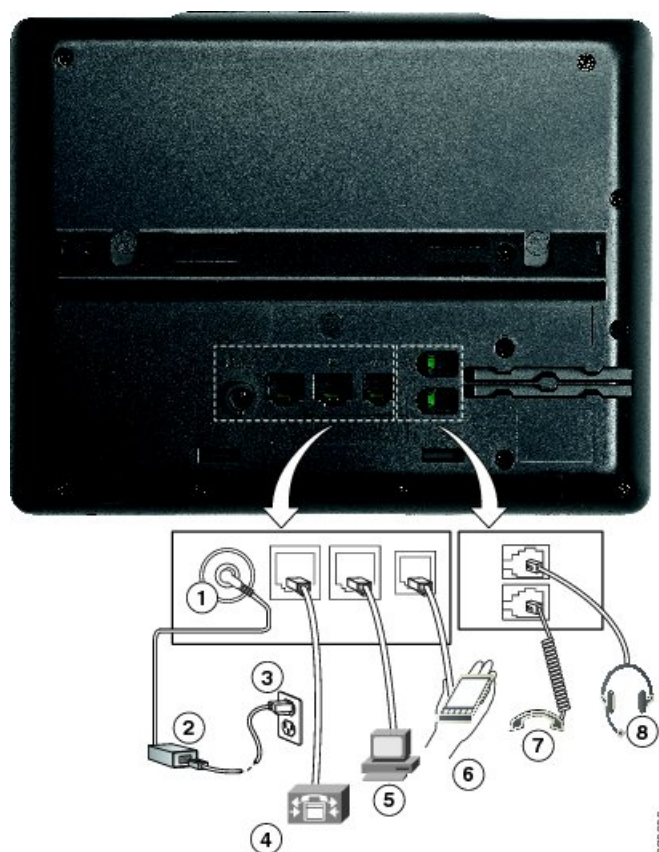


1	DC adaptor port (DC48V) (optional).	5	Access port (10/100/1000 PC) connection (optional).
2	AC-to-DC power supply (optional).	6	Auxiliary port (optional).
3	AC power wall plug (optional).	7	Handset connection.
4	Network port (10/100/1000 SW) connection. IEEE 802.3af power enabled.	8	Analog headset connection (optional).

Cisco IP Phone 7861

Phone Connections

Connect your Cisco IP phone to your LAN with an Ethernet cable to enable full functionality of your Cisco IP phone. If your Ethernet port is equipped with Power over Ethernet (PoE), you can power the Cisco IP phone through the LAN port. Do not extend the LAN Ethernet cable outside the building. For your phone to work, it must be connected to the IP telephony network.



1	DC adaptor port (DC48V) (optional).	5	Access port (10/100 PC) connection (optional).
2	AC-to-DC power supply (optional).	6	Auxiliary port (optional).
3	AC power wall plug (optional).	7	Handset connection.
4	Network port (10/100 SW) connection. IEEE 802.3af power enabled.	8	Analog headset connection (optional).

Buttons and Hardware







The Cisco IP Phone 7800 Series has distinct hardware types:








- Cisco IP Phone 7811 No buttons on either side of the screen
- Cisco IP Phone 7821 Two buttons on the left side of the screen
- Cisco IP Phone 7841 Two buttons on either side of the screen
- Cisco IP Phone 7861 16 buttons at the right edge of the phone

The following figure shows the Cisco IP Phone 7841.

Figure 1: Cisco IP Phone 7800 Series Buttons and Features



1	Handset and Handset light strip	Indicates whether you have an incoming call (flashing red) or a new voice message (steady red).
2	Programmable feature buttons and line buttons	 Access your phone lines, features, and call sessions. For more information, see Softkey, Line, and Feature Button on page 13.
3	Softkey buttons	 Access functions and services. For more information, see Softkey, Line, and Feature Button on page 13.
4	Navigation cluster	Navigation ring and Select  button. Scroll through menus, highlight items, and select the highlighted item.
5	Hold/Resume, Conference, and Transfer	Hold/Resume  Place an active call on hold and resume the held call. Conference  Create a conference call. Transfer  Transfer a call.

6	Speakerphone, Mute, and Headset	<p>Speakerphone  Toggle the speakerphone on or off. When the speakerphone is on, the button is lit.</p> <p>Mute  Toggle the microphone on or off. When the microphone is muted, the button is lit.</p> <p>Headset  Toggle the headset on or off. When the headset is on, the button is lit.</p>
7	Contacts, Applications, and Messages	<p>Contacts  Access personal and corporate directories.</p> <p>Applications  Access call history, user preferences, phone settings, and phone model information.</p> <p>Messages  Autodial your voice messaging system.</p>
8	Volume button	 <p>Adjust the handset, headset, and speakerphone volume (off hook) and the ringer volume(on hook).</p>

Navigation

Use the outer ring of the Navigation cluster to scroll through menus and to move between fields. Use the inner **Select** button of the Navigation cluster to select menu items.



If a menu item has an index number, you can enter the index number with the keypad to select the item.







Softkey, Line, and Feature Buttons

You can interact with the features on your phone in several ways:

- Softkeys, located below the screen, give you access to the function displayed on the screen above the softkey. The softkeys change depending on what you are doing at the time. The **More ...** softkey shows you that more functions are available.
- Feature and line buttons, located on either side of the screen, give you access to phone features and phone lines.
 - Feature buttons—Used for features such as **Speed dial** or **Call pickup**, and to view your status on another line.

- Line buttons—Used to answer a call or resume a held call. When not used for an active call, used to initiate phone functions, such as the missed calls display.

Feature and line buttons illuminate to indicate status:

-  Green, steady LED—Active call or two-way intercom call
-  Green, flashing LED—Held call
-  Amber, steady LED—Privacy in use, one-way intercom call, or logged into a Hunt Group
-  Amber, flashing LED—Incoming call or reverting call
-  Red, steady LED—Remote line in use (shared line or Line Status) or Do Not Disturb (DND) active
-  Red, flashing LED—Remote line on hold

Your administrator can set up some functions as softkeys or as feature buttons. You can also access some functions with softkeys or the associated hard button.

Terminology Differences

The following table highlights some of the terminology differences in the *Cisco IP Phone 7800 Series Multiplatform Phones User Guide* and the *Cisco IP Phone 7800 Series Multiplatform Phones Administration Guide*

Table 2: Terminology Differences

User Guide	Administration Guide
Message Indicators	Message Waiting Indicator (MWI) or Message Waiting Lamp
Voicemail System	Voice Messaging System

