Cisco IP Phone 7940G

The second-generation Cisco IP phones bring state-of-the-art technology to voice communication solutions. Cisco Systems, the worldwide leader in networking for the Internet, now delivers new opportunities for rapid deployment of classic and New World voice applications by providing high-quality voice instruments that use IP transport technology. This allows for the consolidation of data and voice into a single network infrastructure, including a single cable plant, a single switched Ethernet fabric for campus or branch offices, and unified systems for operations, administration, and management (OAM) for data and voice.

The Cisco IP Phone is a standards-based communications appliance. The Cisco IP Phone 7940G is a second-generation, full-featured IP phone for low to medium traffic users who require a minimum of directory numbers. It provides two programmable line/feature buttons capable of four simultaneous calls and four interactive soft keys that guide a user through call features and functions. The Cisco IP Phone 7940G also has a large, pixel-based LCD display. The display provides features such as date and time, calling party name, calling party number, and digits dialed. The graphic capability of the display allows for the inclusion of present and future features.

Figure 1 Cisco IP Phone 7940G

Features

The Cisco 7940G is dynamic and designed to grow with system capabilities. Features will keep pace with new changes via software updates to the phone's Flash memory. The phone provides several different accessibility methods, according to user preference. Various methods or paths include buttons, softkeys, a navigation key, and direct access with the use of corresponding digits. Each of the features below will have expanded capabilities in the future:

- *Messages*—The Cisco 7940G identifies incoming messages and categorizes them for users on the screen. This allows users to quickly and effectively return calls using direct dialback capability.
- *Directories*—The corporate directory integrates with the Lightweight Directory Access Protocol 3 (LDAP3) standard directory.
- *Settings*—The Settings feature key allows users to adjust display contrast and select a ringer tone and volume settings for all audio such as ringer, handset, headset, and speaker. Network Configuration preferences can also be set up. Network configuration is usually set up by the System Administrator. Configuration can either be auto or manually set up for Dynamic Host Configuration Protocol (DHCP), Trivial File Transfer Protocol (TFTP), Cisco CallManager, and backup Cisco CallManagers.
- *Services*—The Cisco 7940G allows users to quickly access diverse information such as weather forecasts, stock prices, or any other Web-based information services configured by the system administrator. Using standards such as extensible markup language (XML), the Cisco IP Phone 7940G provides a portal to an ever-growing world of features and information destinations, displayed on the large screen.
- *Help*—The online help feature gives users information about the phone's keys, buttons, and features. The pixel display allows for greater flexibility of features and significantly expands the information viewed when using features such as Services, Information, Messages, and Directory. For example, the Directory button can show local and server-based directory information.

Cisco IP Phones feature high-quality, Polycom, full-duplex, speakerphone technology. They also include an easy-to-use speaker on/off button and microphone mute button. These buttons are lit when active.

The Cisco two-port Ethernet switch in each Cisco IP Phone allows for a direct connection to a 10/100BaseT Ethernet network via an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC. The system administrator can designate separate virtual LANs (VLANs) (802.1Q) for the PC and Cisco IP phones.

A dedicated headset port eliminates the need for a separate amplifier when using a headset. This allows the handset to remain in its cradle, making headset use simpler. The Cisco IP Phone 7940G convenient volume control button provides easy decibel-level adjustments for the speakerphone, handset, headset, and ringer.

The footstand of the Cisco 7940G is adjustable from flat to 60 degrees to provide optimum display viewing and comfortable use of all buttons and keys.

The Cisco IP Phone 7940G can also receive power down the LAN from any of the new Cisco inline power-capable blades and boxes.

Masking of dual-tone multifrequency (DTMF) tones in speaker mode provide added security.

Other Cisco IP Phone 7940G features include:

- 24 user-adjustable ring tones
- A hearing-aid-compatible handset (meets American Disabilities Act [ADA] requirements)
- G.711 and G.729a audio compression
- H.323 and Microsoft NetMeeting compatibility
- An IP address assignment—DHCP client or statically configured
- Comfort noise generation and voice activity detection (VAD) programming on a system basis
- EIA/TIA RS-232 port for future add-on options such as line expansion, security access, and more

The phone also includes the following settings:

- Display contrast
- Ring type
- Network configuration and network status
- Call status

Service and Support

Cisco AVVID (Architecture for Voice, Video and Integrated Data) support solutions are designed for one purpose—to ensure customer success by delivering a suite of proactive services. The award-winning Cisco internetworking service and support offerings provide presales network audit planning, design consulting, network implementation, operational support, and network optimization. Cisco interactive knowledge-transfer solutions enhance customer success by leveraging Cisco expertise and experience. By including service and support when purchasing Cisco AVVID products, customers can confidently deploy Cisco AVVID networks using Cisco expertise, experience, and resources.

Specifications

- Download firmware changes from Cisco CallManager
- Dimensions: 8[1] x 10.5 x 6 in. (20.32 x 26.67 x 15.24 cm) (H x W x D)
- Phone weight: 3.5 lb (1.6 kg)
- Polycarbonate acrylonitrile butadiene styerene (ABS) plastic in textured dark gray color with silver bezel
- 48 VDC required, supplied locally at the desktop using an optional AC to DC power supply (CP-PWR-CUBE=)

Also requires one of the following country cords:

- CP-PWR-CORD-NA (North America)
- CP-PWR-CORD-CE (Central Europe)
- CP-PWR-CORD-UK (United Kingdom)
- CP-PWR-CORD-AU (Australia)
- CP-PWR-CORD-JP (Japan)
- CP-PWR-CORD-AP (Asia Pacific)

1. The footstand is adjustable from flat to a maximum angle of 60 degrees. In the flat position (for wall mounting) the height of the phone is 4.25 inches. In the maximum upright position on a desk, the phone is 8 inches.

Temperature

- Operating temperature: 32 to 104 F (0 to 40 C)
- Relative humidity: 10% to 95% (noncondensing)
- Storage temperature: 14 to 140 F (–10 to 60 C)

Regulatory Compliance

- CE Marking

Safety

- UL-1950
- EN 60950
- CSA-C22.2 No. 950
- IEC 60950
- AS/NZS 3260
- TS 001

Electro-Magnetic Compatibility

- 47CFR Part 15 Class B
- ICES-003 Class B
- EN55022 Class B
- CISPR22 Class B
- AS/NZ 3548 Class B
- VCCI Class B
- EN55024
- CE Marking

Telecom

- FCC CFR47, Part 68 (HAC)
- IC CS-03

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