Cisco Unified IP Phone 7931G

Cisco® Unified Communications is a comprehensive IP communications system of voice, video, data, and mobility products and applications. It enables more effective, more secure, more personal communications that directly affect both sales and profitability. It brings people together by enabling a new way of communicating—where your business moves with you, security is everywhere, and information is always available...whenever and wherever it is needed. Cisco Unified Communications is part of an integrated solution that includes network infrastructure, security, mobility, network management products, lifecycle services, flexible deployment and outsourced management options, end-user and partner financing packages, and third-party communications applications.

The Cisco Unified IP Phone 7931G meets the communication needs of retail, commercial, manufacturing workers, and anyone with moderate telephone traffic but also specific call requirements. Dedicated hold, redial, and transfer keys facilitate call handling in a retail environment. Illuminated mute and speakerphone keys give a clear indication of speaker status. A pixel-based display with a white backlight makes calling information easy to see, and Extensible Markup Language (XML) services deliver a rich user experience. The Cisco Unified IP Phone 7931G offers numerous important security features plus the choice of IEEE 802.3af Power over Ethernet (PoE) or local power through an optional power adaptor (Figure 1).

Figure 1. Cisco Unified IP Phone 7931G

Features

The Cisco Unified IP Phone 7931G is designed to grow with your organization. A dynamic, soft-key activated feature set allows the phone to keep pace with your requirements through regular software upgrades. You can easily move phones, add new phones, and change existing phone arrangements; users can simply pick up their phones and move to a new location anywhere on the network. The Cisco Unified IP Phone 7931G also provides accessibility features for those with special needs. Tables 1 through 7 present the features, specifications, and compliance information for the Cisco Unified IP Phone 7931G, Table 8 provides ordering information, and Table 9 lists available optional accessories.

Table 1.   Features and Descriptions

Feature	Description
Lighted line keys	Twenty-four lighted line keys to which individual lines can be assigned—Each line key provides a busy-line indication if the line is shared with another IP phone. Lighted line keys are also used to access services and call history directories and to activate the headset port.
Dedicated hold, redial, and transfer keys	Dedicated keys for hold, redial, and transfer—The hold key is colored red to make it clearly visible in a fast-moving call environment; the redial and transfer keys facilitate rapid call handling.
Lighted message waiting indicator	Lights turn on when there is new voicemail and when the phone rings; the message waiting indicator is visible on both the phone chassis and handset, and it stays lit until the user processes new voicemail.
Graphical display	A graphical monochrome display with resolution of 192 x 64 pixels and a white backlight provides scrollable three-line intuitive access to calling features and text-based XML applications. The Cisco Unified IP Phone 7931G also supports audio-based XML applications.
Four soft keys and a four-way rocker key	These keys dynamically present calling options to the user. The four-way rocker key allows easy movement through the displayed information.
Network features	Cisco Discovery Protocol and LLDP-MED (Link Layer protocol) [1]; IEEE 802.1 p/q tagging and switching
Ethernet switch	The phone offers 10/100BASE-T Ethernet connection through two RJ-45 ports: one for the LAN connection and the other for connecting a downstream Ethernet device such as a PC.
Speakerphone	A full-duplex speakerphone enables the user to handle calls hands-free.
Volume control	A volume-control toggle provides easy decibel-level adjustments of the handset, headset, speakerphone, and ringing volume.
Headset port	A dedicated headset port eliminates the need for a separate amplifier when using a headset; it allows the handset to remain in its cradle, making headset use simpler.
Single-position foot stand	The phone offers optimum display viewing and comfortable use of buttons and keys. The foot stand can be removed for wall mounting with mounting holes located on the base of the phone.
Multiple ring tones	The phone offers more than 24 user-selectable ring tones.
American Disabilities Act (ADA) features	A hearing-aid-compatible (HAC) handset meets ADA requirements, including ADA HAC requirements for a magnetic coupling to approved hearing aids; the phone dialing pad also complies with ADA requirements.
Signaling protocol support	Compatible with Cisco Unified CallManager Express Version 4.0(2) and later, using the Skinny Client Control Protocol (SCCP), or Cisco Unified Call Manager 6.0 and later. Also compatible with the Session Initiation Protocol (SIP), starting from Cisco Unified Call Manager 7.0 or later.
Codec support	The phone supports G.711a, G.711u, G.729a, G.729b, and G.729ab audio-compression codecs.
Configuration options	Network parameters can be provisioned through the Dynamic Host Configuration Protocol (DHCP).
Voice quality	Comfort-noise generation and voice-activity-detection (VAD) programming is offered on a system basis.

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[1] LLDP is compatible only with firmware 8.3(3) or later

Table 2. Security Features

Item	Description
Certificates	Phones shipped with factory-installed X.509v3 certificates; there is also an option to install and remove certificates at the customer's site
Device authentication and signaling encryption	Transport Layer Security (TLS) with Advanced Encryption Standard (AES)-128 encryption available with Cisco Unified CallManager Express Version 4.0(2) or later. Cryptography is not enabled by default and may only be enabled through a cryptographically enabled CUCM.
Media encryption	Secure Real-Time Transport Protocol (SRTP) with AES-128 encryption available with Cisco Unified Communications Manager Express and Cisco Unified Communications Manager in a later release. Cryptography is not enabled by default and may only be enabled through a cryptographically enabled CUCM.

Table 3. Software and Physical Specifications

Item	Description
Firmware upgrades	Firmware upgrade supported using a Trivial File Transfer Protocol (TFTP) server
Dimensions (H x W x D)	8 x 9 x 7 in. (20.3 x 22.9 x 17.8 cm)
Weight	3.0 lb (1.36 kg)
Phone casing composition	Polycarbonate acrylonitrile butadiene styrene (ABS) plastic in textured dark gray with silver bezel

Table 4. Power Options

Item	Description
IEEE 802.3af PoE	Can receive power from IEEE 802.3af-compliant data switches (Class III)
Local power	Powered locally with a power adapter (Cisco part number CP-PWR-CUBE-3=) along with one of the power cords listed in Table 5

Table 5. AC Region and County-Specific Power Cords

Part Number	Country
CP-PWR-CORD-AP=	Asia Pacific
CP-PWR-CORD-AR=	Argentina
CP-PWR-CORD-AU=	Australia
CP-PWR-CORD-CE=	European Community
CP-PWR-CORD-CN=	China
CP-PWR-CORD-JP=	Japan
CP-PWR-CORD-NA=	North America
CP-PWR-CORD-SW=	Switzerland
CP-PWR-CORD-UK=	United Kingdom

Table 6. Temperature Ratings

Item	Description
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)

Table 7.   Certifications

Item	Description
Regulatory compliance	CE Marking
Safety	• Underwriters Laboratories (UL) 60950 • Canadian Standards Association (CSA) C22.2 No. 60950 • EN 60950 • IEC 60950 • AS/NZS60950 • TS 001
Electromagnetic compatibility	• Federal Communications Commission (FCC) Part 15 (CFR 47) Class B • ICES-003 Class B • EN55022 Class B • CISPR22 Class B • AS/NZS CISPR 22 Class B • CISPR 24 • VCCI Class B • EN55024 • EN 50082-1 • EN 61000-3-2 • EN 61000-3-3 • EN 61000-6-1
Telecom	• FCC Part 68 (CFR47) HAC • TIA 810A

Table 8.   Ordering Information

Part Number	Description
CP-7931G	Cisco Unified IP Phone 7931G
CP-7931G=	Cisco Unified IP Phone 7931G, spare
CP-7931G-CH1	Cisco Unified IP Phone 7931G, for channels, with one station user license
SW-CCM-UL-7931	Cisco Unified Communications Manager User License for one Cisco Unified IP Phone 7931G
SW-CCME-UL-7931	Cisco Unified Communications Manager Express User License for one Cisco Unified IP Phone 7931G

Note: All Cisco Unified IP phones require the purchase of a phone technology license, regardless of the call protocol being used.

Table 9.   Optional Accessories

Part Number	Description
CP-LCKNGWALLMNT2=	Universal locking wall-mounting kit
CP-PWR-CUBE-3=	Local power adapter for sites where PoE is not available; refer to Table 5 for the correct power cord part number for your region
CP-HANDSET-CORD=	Spare phone handset cord

Warranty

Cisco Unified IP phones are covered by a Cisco standard 1-year hardware warranty.

Cisco Unified Communications Services and Support

Using the Cisco Lifecycle Services approach, Cisco and its partners offer a broad portfolio of end-to-end services to support the Cisco Unified Communications system. These services are based on proven methodologies for deploying, operating, and optimizing IP communications solutions. Initial planning and design services, for example, can help you meet aggressive deployment schedules and minimize network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support, and optimize services enhance solution performance for operational excellence. Cisco and its partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

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Printed in USA

C78-364010-04   02/11