

# Cisco Wireless IP Phone 7920

**As the leader in IP Communications, Cisco continues to deliver unsurpassed end-to-end data and IP telephony solutions, offering the most complete and fully featured IP Phone portfolio. Cisco IP phones provide unmatched levels of integrated business functionality and converged communications features beyond today's conventional voice systems.**

Cisco® extends the power of IP Communications throughout the enterprise by delivering a powerful converged wireless solution with intelligent wireless infrastructure and an innovative product with the introduction of the Cisco Wireless IP Phone 7920. The Cisco Wireless IP Phone 7920 is an easy-to-use IEEE 802.11b wireless IP phone that provides comprehensive voice communications in conjunction with Cisco CallManager and Cisco Aironet® 1200, 1100, 350, and 340 series of Wi-Fi (IEEE 802.11b) access points. As a key component of the Cisco AVVID Wireless Solution, the Cisco Wireless IP Phone 7920

delivers seamless intelligent services such as security, mobility, quality of service (QoS), and management, across an end-to-end Cisco network. (For more information on the AVVID portfolio please visit: <http://www.cisco.com/go/avvid>)

The Cisco Wireless IP Phone 7920 is equally adaptable for all mobile professionals, from managers on the move within an office environment to associates working in the warehouse, on the sales floor, or in the call center. Nurses, doctors, educators, and IT personnel can also increase their reachability as an ever-broadening range of industries adopt wireless LANs.

The Cisco Wireless IP Phone 7920 provides the first generation of wireless IP phones for Cisco's IP Communications solution. The Cisco Wireless IP Phone 7920 supports a host of calling features and voice quality enhancements.

## Cisco Wireless IP Phone 7920 Features

The Cisco Wireless IP Phone 7920 is designed for ease-of-use:

- Pixel-based display—Provides intuitive access to calling features.
- Two soft keys—Dynamically present calling options to the user.

Figure 1:  
Cisco Wireless  
IP Phone 7920





- Four-way rocker switch—Allows easy movement through the displayed information.
- “Hold” key and “Mute” key—Provides users with the flexibility to either place an active call on hold or to ‘listen only’ to the conversation without background noise interference.
- Volume-control—Provides easy decibel-level adjustments of the handset and ringer when in use.
- “Menu” key—Allows for quick access to information such as directories, call history and phone settings such as:
  - Easy retrieval of voice-mail messages
  - Display missed calls, outgoing calls that have been placed, and incoming calls that have been received
  - Various preferences such as Cisco CallManager ring types, user profiles, and preferred language

### Calling Features

The Cisco Wireless IP Phone 7920 is designed to grow with system capabilities. Features will keep pace with new system enhancements. Currently available, easy-to-use, features include:

- Multi-line appearance (six extensions/speed dials)
- Calling name and number display
- Call waiting
- Call forward
- Call transfer
- Three-way calling (conference)
- Pre-dialing before sending
- Redial
- Call hold / resume
- Call mute
- Call park
- Call pick-up / group pick-up
- “You Have Voice Mail” message on display

### Other Features

Hotkey for vibration / ring toggle

- Hotkey for keypad lock
- Hotkey for voice-mail access
- Nine speed dials configurable in the set
- Programmable speed-dial hotkeys 2-9
- Comfort noise generation (CNG), voice activity detection (VAD), adaptive jitter buffer, and echo cancellation
- Language support: English, French, German in the first release
- Local phone book
- Time / date display
- Keypad lock / vibration icon indicators
- Idle / call state-based soft-keys
- RF and battery level indication



## Wireless Characteristics

- Wireless Access Protocol: IEEE 802.11b, Direct Sequence with Dynamic Rate Scaling at 1, 2, 5.5, 11 Mbps.
- RF channels: Up to 14 depending on regulatory domain. North America: 11, ETSI: 13, Japan: 14
- Frequency range: 2.4-2.497 GHz
- Wireless output power: 100mW Effective Isotropic Radiated Power (EIRP) with scaling at 1, 5, 20, 50, 100mW
- Range: 500-1000 ft / 15-300m indoors depending on environment
- Access point support: Cisco Aironet series access points including the 1200, 1100, 350 and 340 series

## Network Features

- Cisco Discovery Protocol (CDP)
- Automatic IEEE 802.1q (Virtual LAN [VLAN]) configuration
- G.711a, G.711u, and G.729a audio-compression coder-decoders (codecs)
- SNMP Manager
- DHCP or Static Configuration Option
- Alternate TFTP Support
- Over-the-air firmware upgrades supported using a Trivial File Transfer Protocol (TFTP) server
- Provisioning of network parameters through Dynamic Host Configuration Protocol (DHCP)
- Site Survey, Trace Route (Hidden Feature), Seamless-Secure Roaming, and VLAN Support

## Protocols Supported

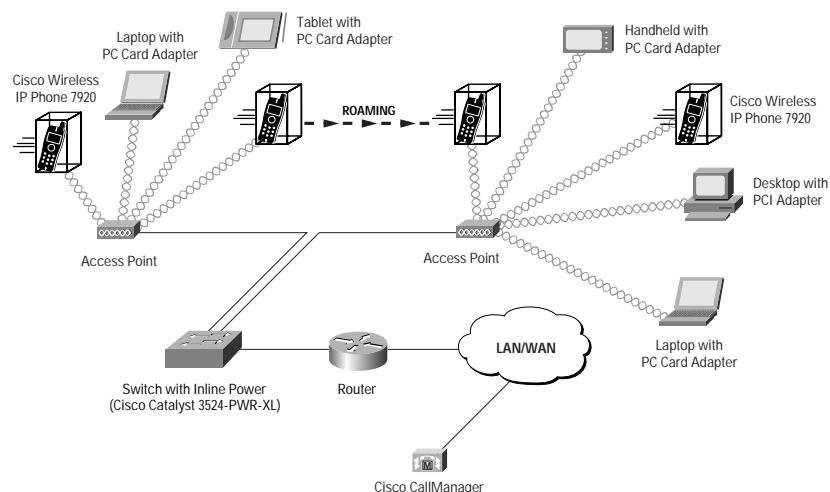
- Compatible with Cisco CallManager Version 3.2 and later, using the Skinny Client Control Protocol
- Compatible with Cisco Survivable Remote Site Telephony (SRST) Version 2.0 and later.

## Security

- Cisco Wireless Security Suite IEEE 802.1X Cisco LEAP authentication: Optional password prompt at power up
- 40 and 128 bit static Wired Equivalent Privacy (WEP)
- Optional phone lock password

Figure 2:

Multiple Aironet access points can be placed throughout a facility to provide uninterrupted connectivity to users equipped with the Cisco Wireless IP Phone 7920.



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### Physical Specifications

- Cisco Wireless IP Phone 7920 dimensions (H x W x D): 5.2" x 2.1" x 1.0"; 132.1mm x 53.3mm x 25.4mm
- Cisco Wireless IP Phone 7920 Series Desktop Charger dimensions (H x W x D): 3.0" x 3.7" x 5.1"; 75mm x 93mm x 129mm
- Weight (with standard battery): 4.8 oz; 136.1g
- High frequency response ringer / vibration / visual display alerts
- 128 x 80 pixel-graphical display, backlit
- 4-way rocker switch
- Send and End/PWR keys
- Built-in speaker / MIC
- 2.5mm headset jack
- USB slave

### Accessories

- Desktop charger with USB
- 1440mA standard Li-ion battery
- 1960mA extended Li-ion battery
- 2.5mm ear-bud
- Additional headsets available at <http://www.cisco.getheadsets.com>
- Choice of holster and full-cover carry cases
- W2K-based administration utility for quick phone configuration
- AC-adapters (by geographical region)

### Power Supply

- Standard 1440mA Li-ion battery life: 3.5 hour talk-time, 21 hour standby
- Extended 1960mA Li-ion battery life: 4.25 hour talk-time, 30 hour standby
- AC-adapters (by geographical region)

### Environmental

- Operating temperature: 32 to 113 F (0 to 45 C)
- Storage temperature: -22 to 140 F (-30 to 60 C)
- Relative humidity: 10 to 95% (noncondensing)
- Drop specification: 1 meter to concrete
- Thermal shock: -30C 24 hours / +70C 24 hours
- Vibration: 1.5 Grms maximum, 0.1" double amplitude @ 0.887 octaves per minute form 5-500-5 Hz sweep, 10 minute dwell on 3 major peaks, in each of the three major mutually perpendicular axes



## Certification/Compliance

### **USA**

- Safety: UL 60950, 3rd. Edition
- FCC Part 15 B, FCC Part 15.247
- OET 65 C

### **Industry Canada**

- Safety: CAN/CSA-C22.2/UL No. 60950
- RSS-102, RSS-210

### **Europe**

- Directive 1999/5/EC
- EN 300.328
- EN 301.489.1
- EN 301.489.17

### **Australia \ New Zealand**

- Safety: AS/NZS 3260, ACA TS001, AS/NZS 60950-1
- AS/NZS 4771
- AS/ACIF S004
- DR PTC220
- ACA Radio communications (Electromagnetic Radiation—Human Exposure) Standard

### **Japan**

- Safety: MITI
- TELEC 33a, VCCI Class B
- TELEC Std 66

### **Emission:**

- EN 55022, class B
- CISPR22, class B
- EN 300 328
- CFR47, Part 15, Subpart B, 1999, class B

### **Immunity:**

- CISPR24
- EN 55024
- EN50082-1
- EN 301 489-1 & -17

## Service and Support

Cisco IP Communications services and support reduces the cost, time, and complexity associated with implementing a converged network. Cisco and its partners have designed and deployed some of today's largest and most complex IP Communications networks—which means that they understand how to integrate an IP Communications solution into your network. Cisco design tools and best practices help ensure a solution that best fits your business needs from the start, eliminating costly redesigns and downtime. Our proven methods help ensure a sound implementation that will deliver the functions and features you expect—on time. Support services include remote network operations, network management tools to administer the converged application and network infrastructure, and technical support services.

Through these services, your organization benefits from the experience gained by Cisco and its partners. Leveraging this valuable experience, you can create and maintain a resilient converged network that will meet your business needs today—and in the future.

## Ordering Information

Table 1 lists some of the common part numbers for the Cisco Wireless IP Phone 7920 and Cisco CallManager:

Table 1 Part Numbers

Part Number	Description
CP-7920-BUN-ST-K9	Cisco Wireless IP Phone 7920, Standard Li-ion Battery, and AC Adapter
SW-CCM-UL-7920	Station User License for Cisco CallManager (CCM)
CP-DSKCH-BUN-7920	Cisco Wireless IP Phone 7920 Series Desktop Charger
CP-CFGPR-BUN-7920	Cisco Wireless IP Phone 7920 Series Configuration Utility CD, and USB Cable
CP-BATT-7920-STD=	Cisco Wireless IP Phone 7920 Standard Battery, Li-Ion, 1440mA
CP-BATT-7920-EXT=	Cisco Wireless IP Phone 7920 Extended Battery, Li-Ion, 1960mA
CP-EARBUD-7920-ST=	Cisco Wireless IP Phone 7920 Series Ear-bud—2.5mm plug
CP-CASE-7920-HOL=	Cisco Wireless IP Phone 7920 Holster Carry Case, Leather
CP-CASE-7920-FLC=	Cisco Wireless IP Phone 7920 Full-Cover Carry Case, Leather

Cisco offers a standard one-year warranty on all Cisco Wireless IP Phone 7920 Series components. A Cisco SMARTnet® optional service agreement is available on the CP-7920-K9 hardware only and not the accessories such as batteries.

## For More Information

For more information about Cisco products, call or visit:

- United States and Canada: (toll free) 800 553-NETS (6387)
- Europe: 32 2 778 4242
- Australia: 1 800 678 808
- Other: 408 526-7209
- Web: <http://www.cisco.com>



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