Huawei IP Phone 7900 Series Datasheet

HUAWEI

Huawei IP Phone 7900 Series are new-generation IP phones with superb performance. The innovative design delivers an intuitive, easy-to-use experience, enabling users to benefit from highly efficient communications.

IP Phone 7910

IP Phone 7950

Expansion Module 7903X

- **Incredibly thin design, ushering in a simple and stylish work style**
  Compared to traditional clumsy IP phones, IP Phone 7900 Series offers users a neat and trendy experience with its sleek, state-of-the-art design.

- **Crystal-clear, full-band high-definition (HD) audio performance, perfectly reproducing high-fidelity sound**
  Based on deep insights into acoustics, Huawei has created revolutionary audio technology for IP Phone 7900 Series to deliver exceptional voice quality.

- **Ergonomic design, delivering a user-friendly experience**
  Based on an in-depth analysis of user habits, Huawei has created an elegant, ergonomic design for the phone handset with an adjustable phone base, culminating in a comfortable tactile feel and optimal view.

- **Gigabit Ethernet (GE) ports and color screen, your best choice for a cost-effective IP phone**
  Color-screen IP Phone 7900 Series is equipped with GE ports and supports Opus full-band voice codec. These features support bandwidth-hungry services, making IP Phone 7900 Series the select choice as cost-effective IP phones for enterprises.

- **Consistent experience with other terminals, delivering a superb user experience across different platforms**
  IP Phone 7900 Series uses the same design style of User Interface (UI) as other Huawei Unified Communications (UC) terminals. This ensures consistent and easy user experience.

Highlights ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

	Screen	Buttons	Ports
IP Phone 7910 IP Phone 7910 is equipped with a 2.83-inch color screen and supports three SIP accounts. Its Graphical User Interface (GUI) delivers rich operation experience. IP Phone 7910 provides a user-friendly Man-Machine Interface (MMI), supports function-rich programmable buttons, and delivers high-quality call services, making it an icon of new-generation budget-friendly IP phones.	Color screen: 2.83-inch, 320 x 240 pixels, 260 thousand colors	• 2 line buttons (with red and green dual-color LED): support for a maximum of 12 concurrent calls • 10 programmable buttons: red and green dual-color LED • 4 fixed function buttons (with red LEDs): Speaker, Headset, Mute, and Call History • 7 fixed function buttons (without LEDs): Home, Message, Volume, Contacts, Hold, Conference, and Transfer • 4 softkeys: activate softkey options on the screen, easy-to-operate • 5 navigation buttons: Up/Down/Left/Right/OK	• 2 GE ports: support for Power over Ethernet (PoE) • 1 headset port: RJ-9
IP Phone 7950 IP Phone 7950 is equipped with a 5-inch, high-resolution true color screen and supports six SIP accounts. It provides a rich array of functions and delivers excellent operation experience. IP Phone 7950 provides a user-friendly MMI on a large, true color Liquid Crystal Display (LCD) screen, supports a broad range of peripherals, and delivers high-quality call services, making it an icon of new-generation business IP phones.	True-color screen: 5-inch, 800 x 480 pixels (high resolution), 16 million colors	• 6 line buttons (with red and green dual-color LEDs): support for a maximum of 12 concurrent calls • (Up to) 5 programmable buttons: unused line buttons serving as programmable buttons • 4 fixed function buttons (with red LEDs): Speaker, Headset, Mute, and Call History • 5 fixed function buttons (without LEDs): Home, Message, Volume, Contacts, and Forward • 4 softkeys: activate softkey options on the screen, easy-to-operate • 5 navigation buttons: Up/Down/Left/Right/OK	• 2 GE ports: support for PoE • 1 USB 2.0 port: for connecting to USB devices, such as a USB flash drive (through which ringtones, wallpapers, and contacts can be imported) or a USB headset • Headset port: RJ-9/USB • Bluetooth: embedded Bluetooth 2.1 module, support for a Bluetooth headset • Expansion module: support for up to three Expansion Module 7903X

Voice and Security

- Opus full-band voice codec, with a sampling frequency as high as 48 kHz
- High-fidelity speaker, handset, and headset
- Comprehensive encryption of signaling and media streams

Preferences

Ringtone

- 10 system ringtones
- Flexible ringtone selection
- Ringtone import

Wallpaper

- 12 system wallpapers
- Flexible wallpaper selection
- Wallpaper import

Management

- Local configuration: GUI on the LCD screen for local phone management
- Built-in web server: Web configuration page for easy phone management
- Huawei eSight: Huawei eSight is a unified Network Management System (NMS), providing a variety of IP phone management functions, including batch phone restart, centralized phone configuration, unified deployment, unified upgrade, log export, and centralized update of wallpapers and ringtones

Applications

GUI	• Consistent user experience • Man-machine interaction on the MMI, with the assistance of softkeys • Diversified functions and easy operations
Local 6-party conference	• Easy to hold and manage a local multi-party conference, with a maximum of six parties supported • Powerful conference status display, easy to identify participants • Convenient conference control
Contacts	• Up to 1000 contacts • Contact group • Contact information (including profile pictures) setting
Lightweight Directory Access Protocol (LDAP) directory	• Efficient keyword-based search for enterprise contact information on the IP phone's LCD screen • Fuzzy search with multiple keywords • Click-to-dial for searched contacts • Synchronization with the corporate directory through LDAP
Call history	• Up to 100 records each for dialed, received, and missed calls • LED lit up for missed calls • Detailed call information, such as the profile picture and call duration • Direct dial from the call history • Easy to add numbers from the call history to the contacts list
XML application	• Support for XML browsers • Allowing the use of third-party XML applications

Huawei UC/CC/IMS Solution ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

IP Phone 7900 Series can be used in the Huawei UC solution to provide diversified functions, including corporate directory, linkage, and one-key switch. They also support multi-registration and server redundancy to help ensure high reliability.

In the Huawei Contact Center (CC) solution, IP Phone 7900 Series works with the agent desktop to provide audio call services.

IP Phone 7900 Series can also be applied to the Huawei IP Multimedia Subsystem (IMS) solution to provide basic IP Telephony (IPT) services.

Expansion Module ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Expansion Module 7903X can work with IP Phone 7950 for capability expansion.

Expansion Module 7903X

Expansion Module 7903X is a multi-functional IP phone expansion module. With a single Expansion Module 7903X, IP Phone 7950 is able to provide additional 40 programmable buttons and optimize viewing through the 5-inch color LCD screen. Expansion Module 7903X enhances the users experience of IP Phone 7950.

- True-color screen: 5-inch, 480 x 800 pixels (high resolution), 16 million colors
- Programmable button: 20 programmable buttons with dual-color (red and green) LEDs, signaling different line states of contacts and providing diverse functions, including speed dial, Busy Lamp Field (BLF), contact group, XML application, phone lock, phone sleep, call forward, pickup, group pickup, call park, and Do Not Disturb (DND)
- Page button: 2 page buttons with monochrome LEDs, with the second page button providing access to an additional 20 programmable buttons (for a total of 40 buttons)
- Function icon display: various function icons displayed, including phone lock, phone sleep, XML application, and contact group
- Profile picture display for contacts

IP Phone 7900 Series Features

Category	Parameter	IP Phone 7910	IP Phone 7950
Protocol	Network protocols	TCP/IP, SIP, SDP, UDP, RTP, RTCP, DHCP, DNS, PPPoE, HTTP, HTTPS, SNTP, XCAP	
Phone features	Multiple lines	6	12
	Multiple accounts	3	6
	Audio codecs	G.711a, G.711μ, G.722, G.722.1, G.722.2, G.729AB, iLBC, Opus, AAC-LD	
	Audio features	• Dual-tone Multiple Frequency (DTMF): Inband/RFC2833 • Anti-clipping (ACLP) • Acoustic Echo Cancellation (AEC) • Automatic Gain Control (AGC) • Adaptive Jitter Buffer (AJB) • Automatic Noise Restraint (ANR) • Comfort Noise Generation (CNG) • Hearing Aid Compatibility (HAC) • Packet Loss Concealment (PLC) • Voice Activity Detection (VAD) • Side Tone Cancellation • Voice Quality Monitor (VQM) • Buzz Cancellation	
	Call history	• Up to 100 records each for placed, received, and missed calls • Missed call notification	
	Contacts	• Up to 1000 contacts • Contact query, import, and export	
	Languages	• Display: Chinese (simplified and traditional), English, Portuguese, Spanish, French, Arabic, Turkish, Russian, German, Polish, and Hungarian • Input: Chinese (simplified and traditional), English, French, Portuguese, Spanish, Arabic, Polish, Hungarian, and Russian	
	Ringtone	• 10 system ringtones • Ringtone import	
	Wallpaper	• 12 system wallpapers • Wallpaper import	
	Local conference	• 6-party audio conference • Participant status display • Operations including adding, muting, and removing participants	
Service application	Basic voice services	Call Waiting, Call Hold, Call Transfer, Call Forward, Call Deflection, DND, Advanced Secretary Service, Call Park, Pickup, Group Pickup, Distinctive Ring, Automatic Call Back, Voicemail, Abbreviated Dial, BLF, Paging Broadcast, Hunt Group, Password-based Call Barring, and Emergency Call	
	Corporate directory	Contact query, direct dial, and adding contacts to the local address book	
	Name and department display	Peer party's name, department, and phone number display for incoming and outgoing calls	
	Profile picture display	Peer party's profile picture display for incoming and outgoing calls	
	Linkage	• Call control using Desktop Clinet • Status synchronization between Desktop Clinet and IP Phone 7910/7950	
	Call recording	• Recording during audio calls • Recorded information saved on the server • Recording control (start or stop) on IP Phone 7910/7950	
	Instant conference	Instant audio conference with the conference button	
	Group conference	Audio conference with participants in a contact group	

IP Phone 7900 Series Technical Specifications

Parameter	IP Phone7910	IP Phone 7950
Screen	2.83-inch, 320 x 240 pixels, 260 thousand colors, color screen	5-inch, 800 x 480 pixels, 16 million colors, color screen
LEDs	Line, Message Waiting Indicator (MWI), Mute, Speaker, Call History, Headset, and programmable button LEDs	
Angle adjustment	2 adjustable angles	
Buttons	• 2 line buttons • 5 navigation buttons: Up/Down/Left/Right/OK • 10 programmable buttons • 4 soft keys • 4 fixed function buttons (with LEDs): Speaker, Headset, Mute, and Call History • 7 fixed function buttons (without LEDs): Home, Message, Volume, Contacts, Hold, Conference, and Transfer	• 6 line buttons • 5 navigation buttons: Up/Down/Left/Right/OK • 4 soft keys • 4 fixed function buttons (with LEDs): Speaker, Headset, Mute, and Call History • 5 fixed function buttons (without LEDs): Home, Message, Volume, Contacts, and Forward
Ethernet ports	2 GE ports: 10/100/1000 Mbit/s adaptive, support for VLAN configuration	
Handset port	RJ-9	
Headset port	RJ-9	RJ-9/USB
PoE	802.3af	802.3af
Power adapter	Input: 100–240 V AC Output: 5 V DC, 2 A	
Dimensions	231 mm x 208 mm x 103 mm	217 mm x 208 mm x 124 mm
Power consumption	About 3.84 W	About 6.49 W
Weight	About 0.85 kg	About 0.9 kg

Expansion Module 7903X Technical Specifications

Parameter	Specification
IP phone support	IP Phone 7950
Screen	5-inch, 480 x 800 pixels, 16 million colors, color screen
Language display	Arabic, Chinese (simplified and traditional), English, French, Portuguese, Russian, Spanish, and Turkish
Buttons	20 programmable buttons and 2 page buttons
Maximum number of pages	2
Maximum number of programmable buttons	40
Maximum number of expansion modules for each IP Phone 7950	3
Functions	Speed dial, BLF, contact group, XML application, phone lock, phone sleep, call forward, pickup, group pickup, call park, DND, paging broadcasting, and hunt group
Power adapter	Input: 100–240 V AC Output: 5 V DC, 2 A
Power consumption	About 3 W
Dimensions	209 mm x 130 mm x 67.5 mm
Weight	About 0.41 kg

Ordering Information

IP Phone 7900 Series Main Equipment
IP Phone 7910: 2.83-inch LCD screen, POE, two GE ports, wired handset, UL network cable, 100 V-240 V, 50/60 Hz, product description documentation in Chinese or English.
IP Phone 7950: 5-inch LCD screen, POE, USB, two GE ports, programmble, wired handset, UL network cable, 100 V-240 V, 50/60 Hz, product description documentation in Chinese or English.
Expansion Module 7903X

IP Phone 7900 Series Auxiliary Materials
IP Phone 7900 Series adapter
Headset: RJ-9 connector, quick disconnect connector, 760 mm (HW111N)/3600 mm(U10P), used for attendants, monaural, headband, noise canceling microphone, specific for IP phone 7900 Series.

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