

CISCO IP PHONE 7800 SERIES

Cisco IP Phone 7841

CP-7841-K9

The Cisco IP Phone 7841 is a four-line enterprise IP phone designed for knowledge workers, administrative staff, managers, customer care agents, and other users with moderate-to-active voice communication needs. It combines a high-resolution grayscale display, wideband audio, full-duplex speakerphone, four programmable line and feature keys, and an integrated Gigabit Ethernet switch for efficient business communications.

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4

Programmable Line / Feature Keys

3.5"

396 × 162 Pixel Grayscale Display

10/100/1000

Gigabit Ethernet Switch

PoE Class 1

IEEE 802.3af Power over Ethernet

PRODUCT OVERVIEW

Enterprise IP Telephony for Everyday Business Communication

The Cisco IP Phone 7841 provides a practical and cost-effective business voice solution with the features required for professional office environments. Its four programmable line keys, dedicated function keys, wideband audio, Gigabit Ethernet connectivity, and integrated security capabilities make it suitable for a wide range of enterprise deployments.

4L**Four Programmable Lines**

Four programmable line and feature keys provide convenient access to directory numbers, call functions and productivity features.

AUDIO**Wideband Audio**

Wideband audio support is available through the handset, speakerphone and supported headset configurations, helping provide clear business communications.

1G**Integrated Gigabit Switch**

Two RJ-45 Ethernet ports provide LAN connectivity and a downstream connection for a PC or another Ethernet device, with

PoE**PoE Class 1**

The phone supports IEEE 802.3af Power over Ethernet Class 1 with power consumption not exceeding 3.84 watts.

Gigabit Ethernet supported on the Cisco IP Phone 7841.

SEC

Enterprise Security

Security capabilities include 802.1X authentication, TLS signaling encryption, SRTP media encryption, authentication mechanisms and encrypted configuration files.

QoS

Network & QoS Support

Cisco network features include CDP and IEEE 802.1Q/p support for VLAN and Quality of Service deployments.

01 / TECHNICAL SPECIFICATIONS

Cisco CP-7841-K9 Detailed Specifications

Technical specifications below are based primarily on Cisco documentation for the Cisco IP Phone 7841 and Cisco IP Phone 7800 Series.

Manufacturer	Cisco Systems, Inc.
Product Family	Cisco IP Phone 7800 Series
Product Model	IP Phone 7841
Part Number	CP-7841-K9=
Product Type	Enterprise Unified IP Phone / VoIP Phone
Intended Use	Business voice communications for knowledge workers, administrative staff, managers, customer care agents and supervisors

Line Keys	4 programmable line and feature keys
Soft Keys	4 soft keys
Display	3.5-inch / 89 mm high-resolution graphical grayscale display
Display Resolution	396 × 162 pixels
Ethernet Ports	2 × RJ-45 Ethernet ports
Ethernet Speed	10/100/1000BASE-T on Cisco IP Phone 7841
Downstream PC Connection	Yes — downstream Ethernet device / PC connection
Signaling Protocol	Session Initiation Protocol (SIP)
Codec Support	G.711 A-law, G.711 μ-law, G.722, G.722.2, G.729ab, iLBC and Opus
Wideband Audio	Yes
Speakerphone	Full-duplex wideband speakerphone
Audio Features	Automatic Gain Control, Comfort Noise Generation, Silence Suppression / Voice Activity Detection, Acoustic Echo Cancellation and Dynamic Noise Reduction
Hearing Aid Compatibility	HAC-compatible handset

PoE Standard	IEEE 802.3af
PoE Class	Class 1
Maximum PoE Power Consumption	Not more than 3.84 W
Power Input Rating	0.42 A, 48 V DC
AC Power Adapter	Cisco Power Adapter 3 for non-PoE deployments
QoS / Network Standards	Cisco Discovery Protocol (CDP), IEEE 802.1Q/p VLAN and QoS support
VLAN Support	IEEE 802.1Q VLAN tagging and configured Admin VLAN support
Security	Certificates, image authentication, device authentication, file authentication, signaling authentication, SRTP, TLS, encrypted configuration files and 802.1X
Media Encryption	Secure Real-Time Transport Protocol (SRTP) using AES-128
Signaling Encryption	Transport Layer Security (TLS) using AES-128 or AES-256
IP Address Assignment	Static configuration or DHCP client
Call Features	Call forwarding, call waiting, caller ID, call history, call park, call pickup, conference, hold/resume, transfer, voicemail, speed dial, redial, shared line, corporate directory, do not disturb, mute and more

Fixed Function Keys	Messaging, Directory, Service, Hold/Resume, Transfer, Conference, Speakerphone, Headset, Mute and navigation controls
Wall Mounting	Supported with optional Cisco wall-mount kit
Physical Dimensions	207 × 206 × 28 mm (H × W × D, excluding foot stand)
Weight	Approximately 868 g
Housing Material	Polycarbonate / ABS textured plastic
Operating Temperature	0°C to 40°C
Non-Operating Temperature	-10°C to 60°C
Operating Humidity	10% to 90%, non-condensing
Non-Operating Humidity	10% to 95%, non-condensing
Replaceable Bezel	Silver bezel available as an option
Color Options	Charcoal and white variants are documented by Cisco; verify the exact SKU before ordering
Certification / Compliance	Cisco documentation lists applicable regulatory, safety, EMC and telecom standards for the 7800 Series

The exact capabilities available on a Cisco IP Phone depend on the call-control platform, firmware and deployment configuration.

Cisco Unified Communications Manager	Cisco documentation lists CUCM 12.5 and above for the 7800 Series data sheet
Cisco Hosted Collaboration Solution	Cisco documentation lists HCS 8.6.2 and later using supported UCM versions
Cisco Unified Survivable Remote Site Telephony	Cisco documentation lists 8.x and later
CUCM Licensing	Cisco states that the IP Phone 7841 requires an Enhanced User Connect License (UCL) to connect to Cisco Unified Communications Manager
Multiplatform / 3PCC Variant	Cisco also documents a separate CP-7841-3PCC-K9= ordering variant with Multiplatform Phone firmware. Verify the exact part number before purchase.

Important: CP-7841-K9 and CP-7841-3PCC-K9 are not interchangeable part numbers. The exact firmware and call-control environment should be confirmed before ordering. Product features may vary according to the vendor platform and software configuration.

03 / HARDWARE INFORMATION

Cisco CP-7841 Hardware Notes

Cisco has documented multiple hardware revisions for the IP Phone 7841. The exact hardware version can be identified from the Product ID (PID) on the rear of the phone.

V

FW

Hardware Revisions

Cisco documentation identifies CP-7841-K9 hardware revisions including V01, V02, V03 and later V04 revisions.

Firmware Compatibility

Cisco states that new phones must run Firmware Release 10.3(1) or later and cannot be downgraded to an earlier firmware release.

SKU

Verify the Exact SKU

Before ordering, verify whether the required unit is the standard CP-7841-K9 or a different regional, color or Multiplatform firmware variant.

04 / ACCESSORIES

Compatible Cisco Accessories

CP-PWR-CUBE-3=	Cisco Power Adapter 3 for non-PoE deployment
CP-7800-WMK=	Cisco Wallmount Kit for Cisco IP Phone 7800 Series
CP-DX-HS=	Spare Wideband Handset for Cisco IP Phone 7800 Series
CP-DX-W-HS=	Spare White Wideband Handset for Cisco IP Phone 7800 Series
CP-7800-HS-CORD=	Spare Handset Cord for Cisco IP Phone 7800 Series

05 / RECOMMENDED USE

Where the Cisco IP Phone 7841 Fits Best

OFF

Business Offices

Suitable for everyday business communication in office and enterprise environments.

ADM

Administrative Staff

Four programmable keys and dedicated call controls support frequent business communications.

MGR

Managers & Supervisors

Designed for users with moderate-to-active voice communication requirements.

CC

Customer Care

A practical enterprise endpoint for supported customer-service and business voice environments.

LAN

Gigabit Desk Connectivity

The integrated Gigabit Ethernet switch can reduce the need for an additional Ethernet connection at the user's desk.

IP

Enterprise VoIP

Designed for Cisco IP telephony deployments using supported call-control platforms.

06 / IMPORTANT INFORMATION

Before You Order

Part Number: Please confirm that you require CP-7841-K9= and not the CP-7841-3PCC-K9= Multiplatform Phone firmware variant.

Power: The phone supports IEEE 802.3af PoE Class 1. A compatible Cisco power adapter may be

required for installations without PoE.

Licensing: Cisco states that CP-7841 requires an Enhanced User Connect License when connected to Cisco Unified Communications Manager.

Availability: Actual stock condition, hardware revision, included accessories and exact SKU should be confirmed with NexoGet before purchase.



Need Pricing or Availability for CP-7841-K9?

Contact NexoGet for pricing, stock availability, product condition, accessories, shipping options and enterprise IT hardware quotations.

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