

Cisco IP Phone 7821

Cost-Effective 2-Line Enterprise Voice Endpoint

Product Data Sheet
SKU: CP-7821-K9

The **Cisco IP Phone 7821 (CP-7821-K9)** is a reliable, highly secure, and cost-effective voice communications endpoint designed for information workers, administrative personnel, and general office users. Featuring 2 programmable line keys, a backlit monochrome graphical display, wideband audio support, and an energy-efficient Class 1 PoE design, it delivers robust telephony performance for any modern workspace.

KEY VALUE HIGHLIGHTS

Backlit Greyscale Display

3.5-inch (396 x 162 pixels) monochrome backlit graphical LCD ensures clear visual interaction under all lighting environments.

2 Programmable Line Keys

Supports 2 lines or feature keys with tri-color illuminated LEDs for clear active call, speed dial, and call-state status.

Integrated Ethernet Switch

Dual 10/100BASE-T Ethernet ports allow pass-through connection to a co-located PC, simplifying cable infrastructure.

Class 1 Energy Efficiency

IEEE 802.3af Class 1 PoE compliance provides low power consumption to help reduce organization energy costs.

HARDWARE FEATURES & SPECIFICATIONS

Parameter	Specification Detail
Display	3.5-inch monochrome backlit LCD (396 x 162 pixels)
Programmable Keys	2 line / feature keys with illuminated LED indicators
Fixed Feature Keys	Hold/Resume, Transfer, Conference, Messaging, Directory, Mute, Speakerphone, Headset
Ethernet Switch	Dual 10/100BASE-T Ethernet (RJ-45) switch ports
Audio Codecs	G.711a, G.711u, G.722 (wideband), G.729a, G.729b, G.729ab, iLBC
Speakerphone & Audio	Full-duplex hands-free speakerphone; Wideband audio handset & dedicated RJ-9 headset port
Power over Ethernet (PoE)	IEEE 802.3af Class 1 compliant (Ultra-low energy consumption)

SECURITY & NETWORK FEATURES

- Authentication & Encryption:** Certificates, SRTP (AES-128), TLS (AES-128/256), Encrypted config files.
- Network Protocols:** SIP signaling, IPv4/IPv6, DHCP, CDP, LLDP-MED, UDP, TCP, NTP, HTTP, HTTPS, TFTP.
- Quality of Service (QoS):** IEEE 802.1p/Q tagging, DSCP, TOS prioritization.

SOFTWARE & SYSTEM COMPATIBILITY

System Platform	Supported Version / Service
Cisco Unified CM	Version 8.5.1, 8.6.2, 9.1.2, 10.5.2, 11.0 and later.
Cisco Hosted Collaboration	Supported via Cisco HCS 9.1.2 and later.
Cisco Webex Calling / 3PCC	Supported via Multiplatform Phone (3PCC) firmware option (CP-7821-3PCC-K9).
Signaling Protocol	Native Session Initiation Protocol (SIP).

PHYSICAL, ENVIRONMENTAL & POWER SPECIFICATIONS

Physical Dimensions & Weight • Dimensions (H x W x D): 8.1 x 8.1 x 1.1 in (207 x 206 x 28 mm) • Weight: 1.90 lbs (867 g) • Footstand: Dual-position stand included; wall-mountable	Power Options & Environment • Power Input: IEEE 802.3af PoE (Class 1) or Optional Power Cube 3 • Operating Temp: 32 to 104°F (0 to 40°C) • Storage Temp: -4 to 158°F (-20 to 70°C)
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FEATURE COMPARISON: CISCO 7800 SERIES PHONES

Model	Display Resolution	Line Keys	Ethernet Switch	PoE Class
CP-7811-K9	3.2" Monochromatic (384x106)	1	10/100 Mbps	Class 1
CP-7821-K9	3.5" Greyscale (396x162)	2	10/100 Mbps	Class 1
CP-7841-K9	3.5" Greyscale (396x162)	4	10/100/1000 Gigabit	Class 1
CP-7861-K9	3.5" Greyscale (396x162)	16	10/100 Mbps	Class 1

ORDERING INFORMATION

- **CP-7821-K9=:** Cisco IP Phone 7821, Charcoal, Standard Enterprise Firmware.
- **CP-7821-W-K9=:** Cisco IP Phone 7821, White Finish.
- **CP-7821-3PCC-K9=:** Cisco IP Phone 7821 with Multiplatform Phone (3PCC) Firmware.
- **CP-PWR-CUBE-3=:** Cisco Power Cube 3 (Optional AC Power Supply).
- **CP-7800-WMK=:** Wall Mount Kit for Cisco 7800 Series.