

# Cisco® IP 7841

Unsurpassed voice clarity and advanced phone features.



The Cisco IP 7841 is a four-line business-class IP phone that enables calls of unprecedented quality. It supports a comprehensive range of features that ensures excellent performance for demanding offices.

The Cisco IP 7841 features wideband audio for unsurpassed voice and enhanced speaker quality with easy installation.

The Cisco IP 7841 also delivers advanced capabilities and features. The phone supports four lines, has a monochrome backlit display for ease of use, and is optimized for the demanding needs of small businesses.

The phone includes dedicated buttons for voicemail, mute, hold, speaker, headset, and other common functions. Users can expect the Cisco IP 7841 to meet the needs of professionals and offices. For users who need to monitor presence, the phone can monitor up to two colleagues.

The Cisco IP 7841 is also easy to install. Because of the built-in IEEE 8023af PoE circuitry and a dual-port Ethernet switch, users have access to flexible deployment options.

# Features and specifications

## Lines

- Four lines

## Display

- Pixel-based display: greyscale, 3.5" 396x162 Backlit monochrome LCD graphical display

## Feature keys

- Dedicated illuminated buttons for:
  - » Audio mute on/off
  - » Headset on/off
  - » Speakerphone on/off
- Four-way rocking directional knob for menu navigation
- Dedicated hold button
- Settings button for access to feature, setup, and configuration menus
- Volume control rocking up/down knob controls handset, headset, speaker, ringer
- Standard 12-button dialing pad

## Voice gateway

- SIP version 2 (RFC 3261, 3262, 3263, 3264)
- SIP proxy redundancy: dynamic via DNS SRV, A records
- Reregistration with primary SIP proxy server SIP support in NAT networks (including STUN)
- SIPFrag (RFC 3420)
- Codec name assignment
- Voice algorithms:
  - » G.711 (A-law and -law)
  - » G.729 A
  - » G.722
- Dynamic payload support
- Adjustable audio frames per packet
- Dual-tone multifrequency (DTMF), in-band
- Call progress tone generation
- Jitter buffer: adaptive
- Frame loss concealment
- Comfort noise generation (CNG)

- Voice activity detection (VAD) with silence suppression
- Attenuation/gain adjustments
  - » VMWI voicemail waiting indicator, via NOTIFY, SUBSCRIBE
- Caller ID support (name and number)
- Third-party call control (RFC 3725)

## Data networking

- VLAN tagging 802.1p/Q: Layer two quality of service (QoS)
- Simple network time protocol (SNTP) (RFC 2030)
- Cisco discovery protocol (CDP)
- Link layer discovery protocol (LLDP)

## Security features

- Password-protected system, preset to factory default
- Password-protected access to administrator and user-level features
- HTTPS with factory-installed client certificate
- HTTP digest: encrypted authentication via MD5 (RFC 1321)

## Power supply

- The phone is an interoperable IEEE 802.3af PoE (Class 1 device); 48 VDC is required
- Power supply is included
- DC output voltage: +5 VDC at 2.0A maximum
- Switching power adapter: 100-240V 50-60 Hz AC input

## Physical interface

- Two 10/100/1000BASE-T RJ-45 Ethernet ports (IEEE 802.3)
- Handset: RJ-9 connector
- Built-in speakerphone and microphone

## Indicator lights/LED

- Speakerphone on/off button with LED
- Headset on/off button with LED
- Mute button with LED
- Message waiting LED

## Operating temperature

- Temperature: 32° ~ 104°F (0° ~ 40°C)
- Relative humidity: 10% to 95% noncondensing

## Storage temperature

- Temperature: -4° ~ 158°F (-20° ~ 70°C)
- Relative humidity: 10% to 95% noncondensing

## Compliance

- FCC (Part 15, Class B), UL, CE Mark, A-Tick

## Package contents

- Cisco IP 7841 IP phone, handset, and stand
- Handset cord
- RJ-45 Ethernet cable
- User guide
- Quick tips reference card
- Power adapter

## Box dimensions/weight

- 207x206x28mm
- 868g

## Warranty

- One year

## Presence

- Monitor up to two users on the phone

## Regulatory compliance

- FCC (Part 15, Class B), CE Mark, A-Tick, C-Tick, Telepermit, UL, CB