



400HD IP Phone Series

The AudioCodes **400HD series of IP phones** simplifies communication and boosts productivity through superior voice quality, user-friendly operation and intuitive controls. Leveraging more than three decades of field-proven voice calling experience, AudioCodes IP phones support a wide range of user personas and scenarios and are ideal for the government, education, retail and enterprise sectors.

Powerful Set of Common Features

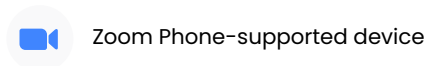
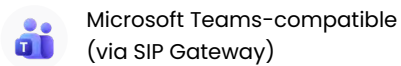
- ✔ Compatibility with leading UCaaS platforms
- ✔ Remote management using the AudioCodes Device Manager
- ✔ Robust security mechanisms
- ✔ Power over Ethernet (PoE)
- ✔ High-definition voice quality
- ✔ Integration with voice quality monitoring
- ✔ Full duplex speakerphone and headset connectivity
- ✔ Full SIP protocol support with extensive interoperability
- ✔ Out-of-the-box global redirection server support

Effortless Calling for Any Persona in Any Scenario

AudioCodes' business IP phones deliver crystal-clear audio alongside a modern, ergonomic design and a seamless calling experience. With options ranging from full touch models to devices featuring large, easy-to-use hard keys, our portfolio is designed to provide a consistent, high-quality user experience across all personas and workplace scenarios.

Flexible Sidecar Options

The AudioCodes 400HD series features models with sidecar capabilities that streamline workflows and enhance efficiency for power users. Available in both full touch and more traditional keypad formats, these sidecars cater to a variety of roles, providing added convenience and functionality for executives, office admins and other high-demand users.



C450HD IP Phone



The **C450HD** IP phone is an advanced, high-end executive IP phone with a large, color 5" touch screen, integrated Wi-Fi* and optional connectivity to color touch screen expansion modules.

- Full duplex speakerphone and headset connectivity
- Graphical 5" color touch screen (1280 X 720)
- Multi-lingual support
- Dual GbE support
- PoE or external power supply
- USB headset support
- Integrated Wi-Fi*
- Support for optional expansion module
- Ideal for knowledge workers, office admin staff and executives



445HD IP Phone



The **445HD** IP phone is an advanced, high-end business IP phone with a large, color 4.3" main display, integrated Wi-Fi* and a dedicated LCD displaying contacts and their presence in an integrated sidecar.

- Color 4.3" high resolution screen (480x272)
- Full duplex speakerphone and headset connectivity
- 6 multi-function keys
- 4 soft keys
- Dedicated LCD (370 X 60) for 12 contacts display with (BLF)
- Dual GbE support
- USB headset support
- Integrated Wi-Fi*
- PoE or external power supply
- Ideal for knowledge workers, retail environments and office admin staff



425HD IP Phone



The **425HD** IP phone is an advanced, mid-range business IP phone. Designed with simplicity very much in mind, it has a 3.5" color display and 8 programmable multi-function keys.

- Full duplex speakerphone and headset connectivity
- 4 lines
- Graphical multi-lingual color screen (320 X 480)
- 4 programmable soft keys
- 8 programmable multi-function keys
- Dual GbE support
- USB and RJ-9 headset support
- PoE or external power supply
- Ideal for shared spaces and frontline workers



405HD & 405 IP Phones

The **405HD** and **405** IP phones are cost-effective, entry-level IP phones designed to offer the essential everyday features that the modern business environment demands.

- Full duplex speakerphone and headset connectivity
- 2 lines
- Graphical, backlit multi-lingual LCD (132 X 64)
- 4 programmable soft keys
- PoE or external power supply
- Dual GbE support (supported only on the 405HD)
- USB headset support (supported only on the 405HD)
- Ideal for shared spaces and frontline workers



**Wi-Fi is supported in specific regions such as the USA, Canada, the European Union, Switzerland and Israel, and requires a specific CPN with a "BW" suffix when ordering. For an updated list of supported regions please contact AudioCodes.*

Technical Specifications for the 400HD Series

Telephony Features

Supplementary Features

Call waiting, call hold, call transfer, call forward, 3-way conference (local mix) and network conferencing, hot line, DND, mute, speed dial, dial plan, CWRR, call logs, auto answer via TALK event, call pickup, multiple Boss Admin, shared line appearance, call park

Signaling

Caller ID, MWI, DTMF relay – RFC2833, DTMF via SIP INFO, configurable call progress tones

VoIP Applications

Unified communications, IP contact centers, open-source IP-PBX, hosted IP-PBX and IP centrex

Enhanced VoIP Processing Capabilities

Packet loss concealment, high quality wideband, wideband acoustic echo canceler, low-delay adaptive jitter buffers

Media Processing

Wideband Voice Coders

G.722, OPUS²

Narrowband Voice Coders

G.711μ/a, G.729A/B, OPUS²

Additional Media Features

Acoustic echo cancelation (AEC) – multiple path, wideband acoustic EC, packet loss concealment, silence suppression, voice activation detection, adaptive jitter buffer

Protocol Support

VoIP and Signaling

SIP – RFC 3261, SDP – RFC 2327, SIP over TCP/UDP/TLS, DNS_SRV (redundancy), digest authentication, PRACK, early media, SIP subscribe notify, BLF (busy lamp field), presence, MWI (message waiting indication)

Data Protocols

IPv4, TCP, UDP, ICMP, ARP, RTP, SRTP, RTCP-XR, 802.1x, static IP/DHCP IP assignment, IEEE 802.1p/Q, QoS/ToS, HTTP/HTTPS/DHCP, NTP, FTP/TFTP, CDP/LLDP VLAN configuration, LDAP

Security

802.1x, HTTPS, SIP over TLS and SRTP, configuration file encryption, PC port disable option

Provisioning & Management

Web server for configuration and management, configuration update via FTP, TFTP, HTTP, HTTPS, DHCP options (66,67,160,12,60,77), mass deployment provisioning with global redirection server, provision URL via SIP SUBSCRIBE and NOTIFY, RFC6035 SIP publish for QoE reporting

General Specifications

Language Support	English (default), Spanish, Italian, Portuguese, German, Ukrainian, French, Polish, Hebrew, Finnish, Korean, Simplified and Traditional Chinese, Turkish, Japanese (Kanji, Hiragana, and Katakana input modes), Hungarian, Slovak, Czech, Russian
Telephony Interface	RJ-9 headset jack X 1, USB port for headset ¹ , DHSG ¹
Network Interface	2 LAN RJ-45 10/100/1000 Base-T for PC and LAN connectivity
Power Requirements	+12V DC, 1A power adapter (C450HD: +12V DC, 2A) AC 100V-240V and/or integrated Power over Ethernet - IEEE 802.3af (see price list for ordering options)
Storage/Operation Temperature	-20° to +70°C / 0° to +40°C (-4 to +158°F / 32 to +104°F)
Homologations & Approvals	FCC Part 15 Class B, ICES-003 Class B, EN55032 Class B, EN61000-3-2, EN61000-3-3, UL-60950-1, EN60950-1, IEC-60950-1 (CB), CE mark, cTUVus RCM, KC, Anatel, CCC, ICASA, EAC, IC, ACTA, VCCI, BSMI

The homologation list can change from model to model, please contact AudioCodes for up to date model specific information.

Physical Specifications

	C450HD	445HD	425HD	405HD/405 ⁴
Unit Dimension (WxDxH)	234 x 190 x 170/195 mm ³ (9.21 x 7.48 x 6.69/7.67 in.)	250 x 168 x 163 mm (9.84 x 6.61 x 6.42 in.)	212.2 x 210.4 x 90.93/177.91 mm ⁵ (8.35 x 8.29 x 3.58/7.01 in.)	191 x 180 x 153 mm (7.52 x 7.09 x 6.02 in.)
Unit Weight	1.284Kg (2.83 lb)	1.05Kg (2.31 lb)	0.984Kg (2.15 lb)	0.68Kg (1.5 lb)
Unit Box Dimension (WxDxH)	275 x 245 x 110 mm (10.82 x 9.64 x 4.33 in.)	316 x 255 x 95 mm (9.84 x 6.61 x 6.42 in.)	320 x 244 x 90 mm (12.60 x 9.61 x 3.54 in.)	210 x 200 x 100 mm (8.27 x 7.87 x 3.94 in.)
Unit Box Weight	1.722Kg (3.79 lb)	1.49Kg (3.28 lb)	1.456Kg (3.21 lb)	0.9Kg (1.98 lb)
Master Carton Dimension (WxDxH)	579 x 467 x 293 mm (22.79 x 18.38 x 11.53 in.)	530 x 495 x 340 mm (20.87 x 19.49 x 13.39 in.)	510 x 466 x 362 mm (20.08 x 18.35 x 14.25 in.)	495 x 395 x 237 mm (19.49 x 15.55 x 9.33 in.)
Master Carton Weight	16.07Kg (35.42 lb)	16.07Kg (35.42 lb)	16.7Kg (36.81 lb)	10.1Kg (22.27 lb)

¹ USB port not supported on 405 | DHSG not supported on 405/405HD

² OPUS is not supported on 405

³ C450HD supports two desktop positions: Low position: 170mm | High position: 195mm

⁴ GbE and USB are available on 405HD (not supported on 405)

⁵ The 425HD includes two stand positions

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