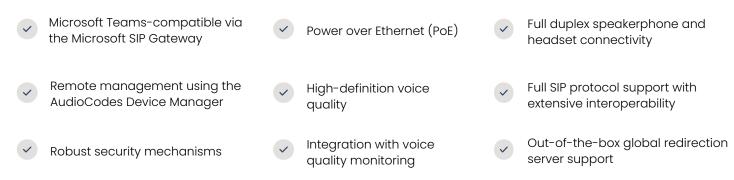# 400HD IP Phone Series

The AudioCodes **400HD series of IP phones** includes a range of easy-to-use, feature-rich products for the service provider, hosted services, unified communications, enterprise IP telephony and contact center markets. Based on the same advanced, field-proven underlying technology as our other VoIP products, AudioCodes' high quality IP phones enable service providers, systems integrators and end customers to build end-to-end VoIP solutions.

Powerful Set of Common Features

- ✓ Microsoft Teams-compatible via the Microsoft SIP Gateway
- ✓ 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

Unified Communications

AudioCodes provides diverse solutions tailored for the unified communications (UC) market. AudioCodes' offering for UC includes media gateways, E-SBCs, call recording solutions, mobility and IP phones which, in addition to high quality voice calls, also support presence features.

Enterprise IP Telephony

AudioCodes IP phones offer reliable, high quality communications for users of on-premises IP-PBXs and cloud-based UC and voice platforms. Their wide range of essential business features, reliability and proven interoperability make them the perfect choice for any SIP-based environment, from SOHO up to large enterprises.

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

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

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

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)

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, OPUS[2]
Narrowband Voice Coders	G.711µ/a, G.729A/B, OPUS[2]
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	-20º to +70ºC / 0º to +40ºC (-4 to +158ºF / 32 to +104ºF)
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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