



400HD IP PHONES 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

- High-definition voice quality
- AudioCodes Auto-provisioning
- Robust security mechanisms
- Power over Ethernet (PoE)
- Multiple language support
- Integration with voice quality monitoring
- Full duplex speakerphone and headset connectivity
- Full SIP protocol support with extensive interoperability
- Out of the box global redirection sever 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, open source and hosted IP-PBXs. Their wide range of essential business features, reliability and proven interoperability makes them the perfect choice for any SIP-based environment, from SOHO up to large enterprises.

IP Contact Centers

AudioCodes IP phones provide the perfect solution for IP contact center agents. Combining excellent voice quality for contact center agents, with a compact and robust enclosure design and headset integration, AudioCodes' IP phones offer several essential features required in the growing contact center market including fully certified VoIP interoperability with leading contact center solution providers.

C450HD IP Phone



The C450HD IP phone is a high-end, native Microsoft Teams executive IP phone with a large, color 5" touch screen, integrated **Bluetooth and **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
- 2xUSB headset support
- Integrated **Bluetooth and **Wi-Fi
- Expansion module support



C448HD IP Phone



The C448HD IP phone is a native Microsoft Teams entry level/common area phone with a large, color 5" touch screen. Recommended for a hot desking environment.

- 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
- 1xUSB headset support



450HD IP Phone



The 450HD IP phone is an executive high end business IP phone with a large, color 5" main touch screen and optional connectivity to color touch screen expansion modules.

- Large 5" Color TFT main screen (800 X 480)
- Multi-lingual support
- Touch oriented user interface allowing up to 8 programmable soft keys
- Expansion module (optional) with 5" Color TFT screen (480 X 854)
- Full duplex speakerphone and headset connectivity
- 8 lines
- Dual GbE support
- USB headset support
- PoE or external power supply



445HD IP Phone



The 445HD IP phone is an advanced, high-end business IP phone with a large, color 4.3" main display, integrated to **bluetooth and **Wi-Fi with a dedicated LCD displaying contacts and their presence (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 **Bluetooth and **Wi-Fi
- PoE or external power supply



440HD & 430HD IP Phones



The 440HD/430HD IP phones are advanced, mid-range business IP phones. Built for ease-of-use and convenience, the 430HD boasts a large LCD and 12 programmable speed dial keys. The 440HD includes a dedicated LCD displaying contacts and their presence (integrated sidecar).

- Full duplex speakerphone and headset connectivity
- 6 lines
- Graphical multi-lingual LCD (256 X 128)
- 6 multi-function keys
- 4 soft keys
- 12 programmable speed dial keys with presence monitoring (BLF)
- Dedicated LCD (370 X 60) for contacts display (440HD only)
- Dual GbE support
- USB headset support
- PoE or external power supply



420HD IP Phone



The 420HD IP phone is an entry-level, feature-rich enterprise IP phone. Its flexibility and robust design make it extremely suitable for demanding enterprise and contact center deployments.

- Full duplex speakerphone and headset connectivity
- 2 lines
- Graphical multi-lingual LCD (128 X 48)
- 4 programmable soft keys
- Dual GbE support
- PoE or external power supply



405HD & 405 IP Phones



The 405HD and 405 IP phones are a 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)



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, CWR, 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 , SILK ²
Narrowband Voice Coders	G.711µ/a, G.729A/B, OPUS ² , SILK 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 (with feature key), German, Russian, Ukrainian, French, Polish, Hebrew, Finnish, Korean, Simplified and Traditional Chinese, Turkish, Japanese (Kanji, Hiragana, and Katakana input modes), Hungarian, Slovak, Czech
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 (C448HD, 450HD, C450HD, HRS: +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/C448HD/450HD	445HD	440HD/430HD	420HD	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.)	250 x 168 x 163 mm (9.84 x 6.61 x 6.42 in.)	188 x 157 x 163 mm (7.40 x 6.18 x 6.41 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)	1.05Kg (2.31 lb)	0.82Kg (1.81 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.)	316 x 255 x 95 mm (9.84 x 6.61 x 6.42 in.)	262 x 236 x 95 mm (7.40 x 6.18 x 6.41 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)	1.49Kg (3.28 lb)	1.2Kg (2.65 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.)	530 x 495 x 340 mm (20.87 x 19.49 x 13.39 in.)	540 x 495 x 260 mm (7.40 x 6.18 x 6.41 in.)	495 x 395 x 237 mm (19.49 x 15.55 x 9.33 in.)
Master Carton Weight	16.07 Kg (35.42 lb)	16.07 Kg (35.42 lb)	15.8Kg (34.83 lb)	13.1Kg (28.88 lb)	10.1kg (22.27 lb)

¹ USB port not supported on 405, 420HD | DHSG not supported on 405/405HD and 420HD

² OPUS and SILK supported on 405HD, 420HD 430HD, 440HD, 450HD and HRS

³ C448HD, 450HD and C450HD supports two desktop positions: Low position: 170mm | High position: 195mm

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



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