



The AudioCodes **400HD series of IP phones** includes a range of easy-to-use, feature-rich products for the service provider hosted services, 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.



450HD IP Phone



445HD IP Phone



440HD IP Phone



430HD IP Phone



420HD IP Phone



405HD IP Phone

Powerful Set of Common Features

- High-definition voice quality
- Robust security mechanisms
- Multiple language support
- AudioCodes Auto-provisioning
- Power over Ethernet (PoE)
- Integration with voice quality monitoring
- Full SIP protocol support with extensive interoperability
- Out of the box global redirection sever support
- Full duplex speakerphone and headset connectivity

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.

450HD IP Phone



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

- Large 5" Color TFT main screen (800 x 480) with multi lingual support
- Touch oriented user interface allowing up to 8 programmable keys and soft keys
- Expansion module (optional) with 5" Color TFT screen (480 x 854)
- Full duplex speakerphone and headset connectivity
- Integrated Bluetooth for wireless headset connectivity
- 8 lines
- 8 programmable speed dial keys with presence monitoring (BLF)
- GbE Support
- USB Headset support
- PoE or external power supply



B

*Hardware ready, software will be ready during 2018

445HD IP Phone**



The 445HD IP Phone is an advanced business high end IP phone with a large 4.3" main color display, integrated Bluetooth* and a dedicated LCD displaying contacts and their presence (integrated sidecar).

- Color 4.3" high resolution screen (480x272)
- Full duplex speakerphone and headset connectivity
- 6 lines
- 6 Multi-function keys
- 4 soft keys
- Dedicated LCD (370 X 60) for contacts display
- 12 programmable speed dial keys with presence monitoring (BLF)
- GbE support
- USB Headset support
- PoE or external power supply



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* Pending Microsoft Sfb Certification

**Contact AudioCodes for the availability of 445HD

***Hardware ready, software will be ready during 2018

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
- Graphic 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)
- GbE support
- USB Headset support
- PoE or external power supply

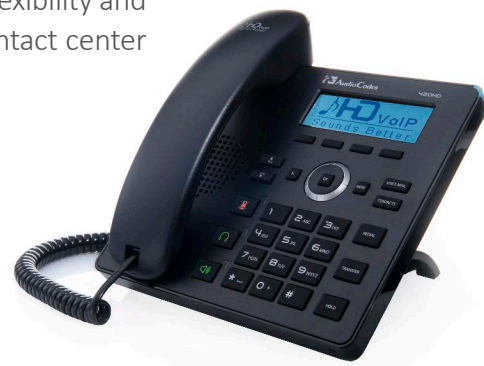


420HD IP Phone



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
- Graphic multi-lingual LCD (128 X 48)
- 4 programmable soft keys
- Dual GbE Support
- PoE or external power supply



405HD & 405 IP Phones



The 405 IP Phone is a cost-effective, entry-level IP phone 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
- GbE Support (supported only on the 405HD)
- USB Headset Support (supported only on the 405HD)



*405HD is certified for Skype for Business

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 ⁵
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 cancellation (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 ¹ (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 , DHS ¹
Network Interface	2 LAN RJ-45 10/100/1000 Base-T for PC and LAN connectivity
Power Requirements	+12V DC, 1A Power adapter (450HD: +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

	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.)	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)	1.00Kg (2.20 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.)	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)	1.44Kg (3.17 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.)	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)	15.73Kg (33.73 lb)	13.1Kg (28.88 lb)	10.1kg (22.27 lb)

¹ Supported by 430HD, 440HD, 445HD and 450HD.

² OPUS and SILK are supported on 405HD, 420HD, 430HD, 440HD, 445HD and 450HD.

³ 450HD supports two desktop positions: Low position: 170mm | High position: 195mm.

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

⁵ Some of the features are supported by 430HD, 440HD, 445HD and 450HD only.



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