



 audiocodes



## 400HD IP PHONES SERIES FOR MICROSOFT TEAMS

The AudioCodes **400HD series** of native Microsoft Teams IP phones is a range of easy-to-use, feature-rich products for boosting workplace productivity by providing a superior Microsoft Teams experience.

Each IP phone is packed with advanced features to deliver crystal-clear voice quality, superb image clarity, calendar synchronization and one-click to join functionality for seamless integration with any Microsoft Teams deployment in any sized enterprise.

In addition, these devices are available as part of AudioCodes' Managed IP Phones solution, which defines them as an IT-managed entity for complete lifecycle management through the AudioCodes One Voice Operations Center (OVOC). Using this solution, voice network administrators can easily deploy and monitor AudioCodes IP phones, and quickly identify and remedy any issues that may arise.

### Microsoft Teams Feature Set

- Advanced Teams meetings integration (one-click join for Teams meetings; join Skype for Business meetings; meeting call controls [Mute/Unmute, Hold/Resume, Hang Up, Add/Remove Participant]; meeting details)
- Calendar and presence (calendar access and meeting details; presence integration; Exchange calendar integration; contact picture integration; corporate directory access)
- Basic and advanced calling features, including PSTN calling, visual voice mail and 911 support, P2P calls, in-call controls (Mute/Unmute, Hold, Transfer, End Call)
- Secure authentication sign-in (sign in with user credentials; sign in using PC/smartphone)
- Phone lock/unlock
- Dedicated 'Home', 'Calls', 'Calendar', 'People' and 'Voicemail' tabs for easy end user access to a variety of features
- Dedicated Teams button (C435HD)
- Dedicated Home button (C470HD)

## C470HD IP Phone



The **AudioCodes Microsoft C470HD** IP phone is a high-end, Total Touch native Microsoft Teams executive business phone, featuring a remarkably clean and intuitive design with a graphical portrait 5.5" color touch screen and a virtual keyboard.

- Total Touch single surface design (touch screen, touch keys)
- High-end portrait 5.5" touch screen (720 X 1280), easily readable from a distance
- Full duplex speakerphone and headset connectivity
- Dual GbE support
- PoE or external power supply
- USB headset support
- Integrated Bluetooth headset support and single band/dual band Wi-Fi connectivity\*
- Android OS 9.0
- Kensington lock



## C450HD IP Phone



The **C450HD** IP phone is a high-end, native Microsoft Teams executive IP phone with a large, color 5" touch screen and optional connectivity to a dedicated color touch screen expansion module.

- Full duplex speakerphone and headset connectivity
- High-end 5" color touch screen (720 X 1080), easily readable from a distance
- Optional 5" vertical color touch screen (1280 X 720) expansion module support for increased productivity, accommodating up to 50 contacts with one-click speed dial (orderable with a separate part number)
- Dual GbE support
- PoE or external power supply
- USB headset support
- Integrated Bluetooth headset support and single band/dual band Wi-Fi connectivity\*
- Android OS 7.1 (roadmap 9.0)
- Kensington lock



*\* Bluetooth and Wi-Fi is supported in specific regions such as the USA, Canada, the European Union, Switzerland, Israel and others, and requires a specific CPN with a "BW" or "DBW" suffix when ordering (for single band or dual band Wi-Fi respectively). For an updated list of supported regions and countries, please contact an AudioCodes representative.*

## C448HD IP Phone



The **C448HD** IP phone is a native Microsoft Teams entry level/common area phone with a large, color 5" touch screen, and is especially recommended for hot desking environments.

- Full duplex speakerphone and headset connectivity
- High-end 5" touch screen (720 X 1280), easily readable from a distance
- Dual GbE support
- PoE or external power supply
- USB headset support
- Android OS 7.1 (roadmap 9.0)
- Kensington lock



## C435HD IP Phone



The **C435HD** native Microsoft Teams IP phone is a low-cost entry level/common area phone, featuring a 4.3" color LCD screen and a dedicated Teams button.

- Full duplex speakerphone and headset connectivity
- 4.3" color LCD screen
- Dual GbE support
- PoE or external power supply
- USB headset support
- Android OS 9.0
- Kensington lock





## User Interface

- Intuitive touch screen (except for C435HD)
- Virtual keyboard
- Multi-language support
- C470HD: Touch keys with backlight for Home, Mute, Speaker and Headset
- C470HD: Touch keys without backlight for Back, Hold, Transfer and Volume
- All other models: Mechanical keys with backlight for Mute, Speaker and Headset
- All other models: Mechanical keys without backlight for Transfer, Hold, Redial, Contacts, Back, 4-way navigation with OK
- Keypad (for C470HD the keypad is virtual, triggered via the speaker or headset touch key)
- Dedicated presence indication LED (Red/Green/Yellow)
- Multi-lingual UI support



## Media Processing

- Voice coders: G.711, G.729, G.722, SILK
- Acoustic echo cancelation
- Adaptive jitter buffer
- Voice activity detection
- Comfort Noise Generation
- Packet lost concealment
- RTP/RTCP packetization (RFC 3550, 3551), SRTP (RFC 3711)



## Network and Security Features

- HTTP/HTTPS secured provisioning
- UDP/TCP, NTP, DNS/SRV
- RTP/RTCP packetization (RFC 3550, RFC 3551), SRTP (RFC 3711)
- TLS version 1.2 – secured transport layer
- 802.1x for secured network access
- VLAN discovery modes: CDP-LLDP, CDP only or LLDP only
- Support for HTTP proxy and PAC file, either manually or via DHCP option 252



## General Specifications (Common to All Models)

- Centralized management supported by the AudioCodes One Voice Operations Center (OVOC) Device Manager
- Microsoft Teams Admin Center (provisioning and logging, software upgrade mechanism)
- Zero touch with AudioCodes Redirect server

# Unique Hardware Parameters

	<b>C435HD</b>	<b>C448HD</b>	<b>C450HD/C450HD+EXP</b>	<b>C470HD</b>
<b>Wired Connectivity</b>	USB Headset  Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN	USB Headset, RJ-9 Analog Headset  Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN	USB Headset, RJ-9 Analog Headset  Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN	USB Headset, RJ-9 Analog Headset  Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN
<b>Screen Orientation</b>	Landscape	Landscape	Landscape	Portrait
<b>Wi-Fi</b>	N/A	N/A	<b>C450 "BW" CPN</b> Single band 2.4GHz, 802.11b/g/n Wi-Fi support  <b>C450HD "DBW" CPN</b> Dual band 2.4GHz and 5 GHz 802.11b/g/n Wi-Fi support	<b>C470HD "DWB" CPN</b>  Dual band 2.4GHz and 5 GHz 802.11b/g/n Wi-Fi support
<b>Bluetooth Connectivity</b> (for headset)	N/A	N/A	C450HD "BW"/"DBW" BT 4.1	C470HD "DWB" BT 5
<b>PoE Class</b>	3 (IEEE802.3af)	3 (IEEE802.3af)	3 (IEEE802.3af)	3 (IEEE802.3af)
<b>DC Power Jack</b>	12V, optional external power supply 2A/12V 100~240V	12V, optional external power supply 2A/12V 100~240V	12V, optional external power supply 2A/12V 100~240V	12V, optional external power supply 2A/12V 100~240V
<b>Base Stand Options</b>	Detachable base, 2 positions, wall mount	Detachable base, 2 positions, wall mount	Detachable base, 2 positions, wall mount	Single position, no wall mount
<b>Unit Dimensions (mm)</b> *Including two stand positions	249(W)x132(D)x189.2(H) 249(W)x168(D)x160.9(H)	236(W)x195(D)x195.7(H) 236(W)x200(D)x165.9(H)	<b>C450</b> 236(W)x195(D)x195.7(H) 236(W)x200(D)x165.9(H) <b>C450-EXP</b> 321.5(W)x195(D)x195.7(H) 321.5(W)x200(D)x165.9(H)	180(W)x165(D)x230(H)
<b>Unit Weight (kg)</b>	0.916	0.983	1.014/1.311	1.200
<b>Unit Box Weight (Gross) (kg)</b>	1.388	1.577	1.620 / 2.095	<b>Regular</b> 1.741 <b>Triangular</b> 1.796
<b>Unit Box Dimension (mm)</b>	316(W)x255(D)x95(H)	275(W)x245(D)x110(H)	275(W)x245(D)x110(H) 362(W)x245(D)x118(H)	<b>Regular</b> 238(W)x275(D)x174(H) <b>Triangular</b> 240(W)x347(D)x231(H)
<b>Master Carton Dimension (mm)</b>	532(W)x500(D)x361(H)	579(W)x467(D)x291(H)	579(W)x467(D)x291(H)	<b>Regular</b> 490(W)x540(D)x308(H) Triangular 380(W)x500(D)x272(H)
<b>Master Carton Weight (kg)</b>	15.9	14.7	15.1/10.05	Regular 12.35 Triangular -
<b>Storage/Operation Temperature</b>	(-)20° to +70°C / 0° to +40°C [(-) 4 to +158°F / 32 to +104°F]	(-)20° to +70°C / 0° to +40°C [(-) 4 to +158°F / 32 to +104°F]	(-)20° to +70°C / 0° to +40°C [(-) 4 to +158°F / 32 to +104°F]	(-)20° to +70°C / 0° to +40°C [(-) 4 to +158°F / 32 to +104°F]
<b>Homologation and Approvals**</b>		FCC part 68.316, 317 HAC, ICES-003 Class B, EN55032 Class B, EN61000-3-2, EN61000-3-3, UL-62368-1, IEC-, CE mark, cTUVus. For Models with Bluetooth and Wi-Fi, FCC part 15.247, FCC part 15.407, EN300328, EN300440, EN301893, EN301489.		

\*\* The homologation list can change from model to model. Please contact AudioCodes for up to date model specific information.



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