The AudioCodes 400HD series of IP phones, certified by Zoom for use with the Zoom Phone platform, is a range of easy-to-use, feature-rich products for boosting workplace productivity through simplicity of use and enhanced voice functionality.

Each IP phone is packed with advanced features to deliver crystal-clear voice quality, ensuring that every detail of important business meetings can be heard by all participants. Stylish design principles are fused with clear and intuitive menus for an effortless user experience, resulting in seamless integration with any Zoom Phone deployment in any sized enterprise.

Because all our IP phones support Zoom “ZTP” (Zero Touch Provisioning with Zoom), deployment and provisioning is straightforward and does not require registration from the phone itself. Simply plug them into a network via Wi-Fi or fixed Ethernet cable to start working right away.

**Key Features & Benefits**

- Certified by Zoom for Zoom Phone
- Excellent voice quality
- Background noise blocking (445HD, C450HD)
- Support for OPUS and G.722
- Simple workflow design and usability
- Plug and play simplicity with Zoom ZTP
- Dedicated call transfer and hold buttons
- Wi-Fi and Bluetooth connectivity
**C450HD IP Phone**

The C450HD IP phone is a high-end, 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*
- 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.

**450HD IP Phone**

The 450HD IP phone is a high-end, executive IP phone with a large, color 5” touch screen and optional connectivity to a dedicated color touch screen expansion module.

- 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 phone with a 4.3” color screen. It includes an integrated, dedicated LCD sidecar displaying contacts and their presence.

- Color 4.3” high resolution screen (480 X 272)
- Full duplex speakerphone and headset connectivity
- 6 multi-function keys
- 4 soft keys
- Dedicated LCD (60 X 370) for displaying 12 contacts (with BLF)
- Dual GbE support
- USB headset support
- Integrated Bluetooth and Wi-Fi*
- PoE or external power supply

* 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.

**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 (GbE supported only on the 405HD)
- USB headset support (supported only on the 405HD)
User Interface

- Intuitive touch screen (450HD, C450HD)
- Multi-language support
- Large mechanical keys with backlight for Mute, Speaker and Headset
- Large mechanical keys without backlight for Transfer, Hold, Redial, Contacts, Back, 4-way navigation with OK
- Multi-lingual UI support

Media Processing

- Voice coders: G.711, G.729, G.722, OPUS
- Acoustic echo cancelation
- Adaptive jitter buffer
- Voice activity detection
- Comfort Noise Generation
- Packet loss 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
## Wired Connectivity

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USB Headset</strong></td>
<td>(405HD)</td>
<td>USB Headset, RJ-9 Analog Headset</td>
<td>USB Headset, RJ-9 Analog Headset</td>
</tr>
<tr>
<td><strong>Two RJ-45 Gigabit Ethernet (GbE) ports</strong></td>
<td>for WAN and LAN. 405 (10/100BaseT Ethernet) 405HD (10/100/1000BaseT Ethernet)</td>
<td>Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN</td>
<td>Two RJ-45 Gigabit Ethernet (GbE) (10/100/1000BaseT Ethernet) ports for WAN and LAN</td>
</tr>
</tbody>
</table>

## Screen Orientation

- Landscape

## Wi-Fi

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>“BW” CPN</strong></td>
<td>Single band 2.4GHz, 802.11b/g/n Wi-Fi support</td>
<td>“BW” CPN</td>
<td>“BW” CPN</td>
</tr>
<tr>
<td><strong>“DBW” CPN</strong></td>
<td>Dual band 2.4GHz and 5 GHz 802.11b/g/n Wi-Fi support</td>
<td>“BW”/“DBW”</td>
<td>“BW”/“DBW”</td>
</tr>
</tbody>
</table>

## Bluetooth Connectivity (for headset)

- N/A

## PoE Class

<table>
<thead>
<tr>
<th>Class</th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 3</td>
<td>1 (IEEE802.3af)</td>
<td>2 (IEEE802.3af)</td>
<td>3 (IEEE802.3af)</td>
</tr>
</tbody>
</table>

## DC Power Jack

- 12V, optional external power supply 2A/12V 100~240V

## Base Stand Options

- Detachable base, 1 position, wall mount
- Detachable base, 2 positions, wall mount
- Detachable base, 2 positions, wall mount

## Unit Dimensions (mm) *Including two stand positions

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>190(W)×189(D)×144(H)</strong></td>
<td>249(W)×132(D)×189.2(H)</td>
<td>249(W)×168(D)×160.9(H)</td>
<td></td>
</tr>
<tr>
<td><strong>249(W)×132(D)×189.2(H)</strong></td>
<td>249(W)×168(D)×160.9(H)</td>
<td>249(W)×168(D)×160.9(H)</td>
<td></td>
</tr>
</tbody>
</table>

## Unit Weight (kg)

- 0.709
- 0.964
- 1.014/1.311

## Unit Box Weight (Gross) (kg)

- 0.942
- 1.464
- 1.620/2.095

## Unit Box Dimensions (mm)

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>210(W)×195(D)×95(H)</strong></td>
<td>316(W)×255(D)×95(H)</td>
<td>275(W)×245(D)×118(H)</td>
<td></td>
</tr>
<tr>
<td><strong>316(W)×255(D)×95(H)</strong></td>
<td>275(W)×245(D)×118(H)</td>
<td>362(W)×245(D)×118(H)</td>
<td></td>
</tr>
</tbody>
</table>

## Master Carton Dimension (mm)

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>495(W)×395(D)×237(H)</strong></td>
<td>532(W)×500(D)×361(H)</td>
<td>579(W)×467(D)×291(H)</td>
<td></td>
</tr>
<tr>
<td><strong>532(W)×500(D)×361(H)</strong></td>
<td>579(W)×467(D)×291(H)</td>
<td>x8 Units</td>
<td></td>
</tr>
</tbody>
</table>

## Master Carton Weight (kg)

- 10.9
- 16.95
- 15.1

## Storage/Operation Temperature

<table>
<thead>
<tr>
<th></th>
<th>405/405HD</th>
<th>445HD</th>
<th>450HD/C450HD+EXP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>(-20°C to +70°C / 0°C to +40°C)</strong></td>
<td><strong>(-20°C to +70°C / 0°C to +40°C)</strong></td>
<td><strong>(-20°C to +70°C / 0°C to +40°C)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>(+4 to +158°F / 32 to +104°F)</strong></td>
<td><strong>(+4 to +158°F / 32 to +104°F)</strong></td>
<td><strong>(+4 to +158°F / 32 to +104°F)</strong></td>
<td></td>
</tr>
</tbody>
</table>

©2021 AudioCodes Ltd. All rights reserved. AudioCodes, AC, HD VoIP, HD VoIP Sounds Better, iPoint, Media, MediaPack, What’s Inside Matters, OSN, SmartTAP, User Management Pack, VMAS, VoIPerfect, VoIPerfectHD, Your Gateway To VoIP, 300V, Vocanom, AudioCodes One Voice, AudioCodes Meeting Insights, AudioCodes Room Experience and CloudBond are trademarks or registered trademarks of AudioCodes Limited. All other products or trademarks are property of their respective owners. Product specifications are subject to change without notice.

07/21