

## Cisco DX70



### Product Overview

The Cisco® DX70 offers no-compromise collaboration for every desk. It's easy to be productive with this sleek 14-inch touch screen device featuring best-in-class High-Definition (HD) video and audio. Now is the time for a delightful collaboration experience so affordable you can empower every office and home-office desktop. The DX70 offers:

- A dedicated, always-on HD video communication system
- An IP phone that provides essential features for knowledge workers
- A high-quality audio system for speakerphone and media playback
- A 14-inch 16:9 screen that provides an engaging experience for video calls
- A multi touch capacitive touch screen that provides an elegant and powerful user interface
- A self-provisioning device that is simple for users to take out of the box and start using immediately
- Easy “One-Button-To-Push” (OBTP) calling that integrates with common calendaring programs
- Flexible registration models on-premises and in the cloud
- Ability for administrators to use Cisco Expressway™ Series for the secure connection of their remote workers

## Features and Benefits

[Table 1](#) lists the features and benefits of the Cisco DX70.

**Table 1.** Features and Benefits

Feature	Benefit
<b>Whiteboard and annotation features</b>	<ul style="list-style-type: none"> <li>• Create whiteboard content and annotate on shared content.</li> <li>• Share and collaborate on whiteboard content with meeting participants on the Cisco Spark Board, Cisco DX Series or Cisco Spark app.</li> <li>• Meeting participants using the Cisco Room Series, Cisco SX Series and Cisco MX Series can also view shared whiteboard content and edit content on their paired Cisco Spark app.</li> <li>• Supported on cloud-registered devices only.</li> </ul>
<b>Design features</b>	<ul style="list-style-type: none"> <li>• Ability to install in minutes: The DX70 is an integrated device with fully touch-based on-screen controls. Just plug in the power cable and Ethernet cable. Get started with a simple set-up wizard. Authenticate to complete the setup.</li> <li>• High-definition video: With a 1920 x 1080 14-inch screen, an 8MP camera, and best in-class video compression, the DX70 provides engaging experiences.</li> <li>• The high-performance audio and acoustics system is excellent for multimedia playback.</li> <li>• Touch screen interface: The multi touch capacitive touch screen overlay provides an elegant and efficient user interface.</li> <li>• All controls on screen: You can easily place calls from the screen itself. You do not need an external device. Options are also accessible while on a call to ensure the participants can stay engaged during a conversation.</li> <li>• Document camera: You can tilt the camera housing on top of the DX70 down to allow sharing of physical content and drawings.</li> <li>• Inclined screen: The DX70 accommodates users who want to sit and use the device at a reclined angle to type or draw comfortably at their desk. You can easily adjust the screen angle, which provides a usable range of between 20 and 85 degrees above the desktop.</li> </ul>
<b>Content-sharing features</b>	<ul style="list-style-type: none"> <li>• Share multimedia and presentations at the touch of a button: While on a call, you can see the laptop screen and share it instantly in full HD with the on-screen control bar.</li> <li>• Enjoy the easy on-screen control interface accessible with a single tap on the screen.</li> </ul>
<b>Performance features</b>	<ul style="list-style-type: none"> <li>• The system offers simultaneous HD video and content sharing.</li> <li>• RGB input is compatible with all modern PC and Mac computers.</li> <li>• Audio is communicated through full-duplex, full-band audio (CD quality).</li> <li>• Provisioning and configuration are easy with Cisco Unified Communications Manager or with Cisco Tele Presence<sup>®</sup> Video Communication Server (VCS) and Management Suite (TMS).</li> </ul>
<b>Registration models</b>	<ul style="list-style-type: none"> <li>• The DX70 registers to Cisco VCS and Session Initiation Protocol (SIP)-based call controls, Cisco Unified Communications Manager, and the Cisco Hosted Collaboration Solution (HCS).</li> <li>• The DX70 also registers to Cisco Spark<sup>™</sup> in the Cisco Collaboration Cloud.</li> </ul>

## Product Specifications

[Table 2](#) lists the specifications of the Cisco DX70.

**Table 2.** Product Specifications

Feature	Benefit
<b>Components</b>	<p>Fully integrated unit including:</p> <ul style="list-style-type: none"> <li>• Codec</li> <li>• Camera</li> <li>• Display</li> <li>• Microphones and loudspeaker</li> </ul> <p>Included: Screen cleaning cloth, Ethernet cable (2.9m), and power supply</p>
<b>Display</b>	<ul style="list-style-type: none"> <li>• 14-inch LCD monitor</li> <li>• Resolution: 1920 x 1080 (16:9)</li> <li>• AHVA display technology contrast ratio: 700:1 (typical)</li> <li>• Viewing angle: +/-178 degrees (typical)</li> <li>• Response time: 25 ms</li> <li>• Brightness: 300 cd/m2 (5 points average)</li> <li>• 10-point multi touch surface</li> </ul>

Feature	Benefit
<b>Supported PC input resolutions</b>	Up to 1080p
<b>Ergonomic design</b>	<ul style="list-style-type: none"> <li>The stand is retractable in the upright position for easy transportation</li> <li>You can tilt the screen from an angle of 5° to 70° from the vertical</li> <li>You can tilt the camera from an angle of -5° to 70° from the display</li> <li>The main I/O panel includes a flip cover to obscure connections</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>Audio system playback: <ul style="list-style-type: none"> <li>Frequency range: 100 Hz to 15 kHz, +/-3 dB*</li> <li>Maximum level: 90 dB at 1w/1m*</li> </ul> </li> <li>The video conferencing system optimally tuned and located analog omnidirectional microphone</li> </ul> <p>* Specification based on direct measurement of the acoustic sub-system</p>
<b>Front camera</b>	<ul style="list-style-type: none"> <li>63° horizontal field of view</li> <li>38° vertical field of view</li> <li>Resolution: 1080p30</li> <li>F 2.2</li> <li>Privacy shutter</li> </ul>
<b>Processor</b>	TI OMAP 4470 1.5-GHz dual-core ARM Cortex-A9 processor
<b>Storage</b>	8-GB eMMC NAND flash memory (embedded multimedia card; nonvolatile)
<b>Memory</b>	2-GB RAM; Low Power Double Data Rate Synchronous Dynamic Random-Access Memory (LPDDR2 SDRAM)
<b>Ports and slots</b>	<ul style="list-style-type: none"> <li>High-Definition Multimedia Interface (HDMI) type A port for PC or Mac video input</li> <li>HDMI type A port output (not in use)</li> <li>High-speed USB 2.0 ports: <ul style="list-style-type: none"> <li>Three standard type A ports enable wired or wireless (dongle) headsets and handset use</li> <li>Side-mounted USB port that provides high-current (2A) charging; the two rear-mounted ports each provide 500 mA charging</li> <li>One Micro-B USB port (serial port for diagnostic and service use)</li> </ul> </li> <li>Micro Secure Digital Standard Capacity (HDSC) slot for nonvolatile storage of applications or file expansion up to 32 GB (Standard-Definition [SD] card speed Class 4 or later recommended)</li> <li>One 3.5-mm analog headphone and headset jack</li> </ul>
<b>Physical buttons</b>	<ul style="list-style-type: none"> <li>Volume up/down</li> <li>Mute</li> </ul>
<b>Visual indicator</b>	<ul style="list-style-type: none"> <li>Cap-sense Audio Volume up/down</li> <li>Cap-sense Audio Mute</li> <li>Power/Reset/Sleep button</li> </ul>
<b>Physical dimensions (H x W x D)</b>	14.84 x 13.91 x 2.45 in. (377.1 x 353.1 x 62.3 mm)
<b>Weight</b>	7.5 lb (3.4 kg)
<b>Power</b>	Rated: 3.5A at 12V maximum Low-power standby mode
<b>Physical security</b>	Compatible with Kensington Security Slot
<b>Connectivity</b>	
<b>Ethernet</b>	<ul style="list-style-type: none"> <li>Internal 2-port Cisco Ethernet switch allows for a direct connection to a 10/100/1000BASE-T Ethernet network (IEEE802.3i/802.3u/802.3ab) through an RJ-45 interface with single LAN connectivity for both the phone and a co-located PC</li> <li>The system administrator can designate separate VLANs (IEEE 802.1Q) for the PC and phone, providing improved security and reliability of voice and data traffic</li> </ul>
<b>Accessories</b>	
<b>Cisco VESA mounting kit</b>	This optional mounting kit includes an adapter that replaces the DX70 foot stand and provides mounting points in the two VESA standards (75 x 75 mm and 100 x 100 mm), allowing the use of third-party mounting solutions or the basic flush wall-mount included with the kit

Feature	Benefit
<b>Temperature Range</b>	
<b>Operating temperature</b>	<ul style="list-style-type: none"> <li>• 32 to 104°F (0 to 40°C)</li> </ul>
<b>Relative humidity</b>	<ul style="list-style-type: none"> <li>• 10 to 90% (noncondensing)</li> </ul>
<b>Storage temperature</b>	<ul style="list-style-type: none"> <li>• -4 to 140°F (-20 to +60°C)</li> </ul>
<b>Approvals and Compliance</b>	
	<ul style="list-style-type: none"> <li>• Directive 2014/35/EU (Low-Voltage Directive)</li> <li>• Directive 2014/30/EU (EMC Directive) – Class A</li> <li>• Directive 2014/53/EU (Radio Equipment Directive)</li> <li>• Directive 2011/65/EU (RoHS)</li> <li>• Directive 2002/96/EC (WEEE)</li> <li>• NRTL approved (Product Safety)</li> <li>• FCC CFR 47 Part 15B (EMC) – Class B</li> <li>• FCC Listed (Radio Equipment)</li> </ul>

## Firmware Options and Features

The Cisco DX70 and DX80, MX, and SX Series all support the Cisco Collaboration Endpoint (CE) Software. CE software is configurable for the Cisco Spark service and for both Cisco HCS and on-premises deployments (registered to Cisco Unified Communications Manager, Cisco Video Communication Server, or even standalone with H.323). For the time being, the capabilities offered by these configurations do vary. [Table 3](#) describes the capabilities common to both. [Table 4](#) lists the additional on-premises features, and [Table 5](#) lists the major differences for the Cisco Spark service. [Table 6](#) lists W-Fi features and specifications for the Cisco Spark service and on-premises registered endpoints.

In addition, the DX Series can also run on Android-based software. This software is compatible only with Cisco Unified Communications Manager. [Tables 7 and 8](#) summarize the Android-based software.

The DX70 and DX80 are planned to ship with CE software by default starting in the second half of 2016.

**Table 3.** Features Common to the Cisco Spark Service and On-Premises Registered Endpoints

Feature	Cisco CE 9.1.1 Software for Managed and Hosted
<b>Video inputs</b>	Support for formats up to maximum 1920 x 1080 @ 30 fps (HD1080p30), including: <ul style="list-style-type: none"> <li>• 640 x 480</li> <li>• 720 x 480</li> <li>• 800 x 600</li> <li>• 1024 x 768</li> <li>• 1280 x 720</li> <li>• 1366 x 768</li> <li>• 1920 x 1080</li> </ul> High-definition inputs use progressive video formats Extended Display Identification Data (EDID)
<b>Live video resolutions</b>	<ul style="list-style-type: none"> <li>• 176 x 144 @ 30 fps (QCIF) (decode only)</li> <li>• 352 x 288 @ 30 fps (CIF)</li> <li>• 512 x 288 @ 30 fps (w288p)</li> <li>• 576 x 448 @ 30 fps (448p)</li> <li>• 768 x 448 @ 30 fps (w448p)</li> <li>• 704 x 576 @ 30 fps (4CIF)</li> <li>• 1024 x 576 @ 30 fps (w576p)</li> <li>• 640 x 480 @ 30 fps (VGA)</li> <li>• 800 x 600 @ 30 fps (SVGA)</li> <li>• 1024 x 768 @ 30 fps (XGA)</li> </ul>

Feature	Cisco CE 9.1.1 Software for Managed and Hosted
	<ul style="list-style-type: none"> <li>• 1280 x 1024 @ 30 fps (SXGA)</li> <li>• 1280 x 720 @ 30 fps (720p30)</li> <li>• 1280 x 768 @ 30 fps (WXGA)</li> <li>• 1920 x 1080 @ 30 fps (1080p30)</li> <li>• 1440 x 900 @ 30 fps (WXGA+)</li> <li>• 1680 x 1050 @ 30 fps (WSXGA+)</li> </ul>
<b>Audio features</b>	<ul style="list-style-type: none"> <li>• Up to 48-kHz sampling rate</li> <li>• High-quality 20-kHz stereo audio</li> <li>• Acoustic echo cancellers</li> <li>• Automatic Gain Control (AGC)</li> <li>• Automatic noise reduction</li> </ul>
<b>Wi-Fi</b>	<ul style="list-style-type: none"> <li>• See <a href="#">Table 6</a></li> </ul>
<b>Bluetooth headsets</b>	<ul style="list-style-type: none"> <li>• Bluetooth 3.0 (HFP, A2DP) – wideband not supported</li> </ul>
<b>Language support</b>	Arabic, Catalan, Czech, Danish, Dutch, English, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese-Brazilian, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish; depends on software version. For regions that support Cisco Spark service, please visit: <a href="https://cs.co/geos">cs.co/geos</a> .

**Table 4.** Software Features for Endpoints Registered On-Premises and Cisco HCS

Feature	Cisco CE 9.1.1 Software
<b>Bandwidth</b>	H.323 and SIP; up to 3 Mbps point to point
<b>Minimum bandwidth for resolution and frame rate</b>	720p30 from 768 kbps 1080p30 from 1472 kbps
<b>Firewall traversal</b>	Cisco Tele Presence Expressway technology
<b>Video standards</b>	H.263, H.263+, H.264, and AVC (H.264/MPEG-4 Part 10 Advanced Video Coding)
<b>Video features</b>	<ul style="list-style-type: none"> <li>• On-screen layout control for video and presentation</li> <li>• Active control (participants list, active speaker and content sharing, end participant call, and muted participants)</li> <li>• Layout controls</li> <li>• Self-View</li> <li>• Far-end camera control</li> </ul>
<b>Audio standards</b>	• 64- and 128-kbps AAC-LD, OPUS, G.722, G.722.1, G.711mu, G.711a, G.729ab, and G.729
<b>Audio features</b>	<ul style="list-style-type: none"> <li>• Active lip synchronization</li> </ul>
<b>Dual stream</b>	<ul style="list-style-type: none"> <li>• H.239 (H.323) dual stream</li> <li>• Binary Floor Control Protocol (BFCP) (SIP) dual stream</li> <li>• Support for resolutions up to 1080p (1920 x 1080)</li> </ul>
<b>Multipoint support</b>	Cisco Ad-Hoc Conferencing (requires Cisco Unified Communications Manager, Cisco HCS, Cisco Tele Presence Server, and Cisco Tele Presence Conductor)
<b>Embedded encryption</b>	<ul style="list-style-type: none"> <li>• SIP point-to-point</li> <li>• Standards-based: Advanced Encryption Standard (AES)</li> <li>• Automatic key generation and exchange</li> <li>• Support for dual stream</li> </ul>
<b>Calling features</b>	<ul style="list-style-type: none"> <li>• + Dialing (ITU E.164)</li> <li>• Add consultative call</li> <li>• Adjustable ringing and volume levels</li> <li>• Adjustable display brightness</li> <li>• Auto-answer</li> <li>• Auto-detection of headset</li> <li>• Call forward</li> <li>• Call forward notification</li> <li>• Call-history lists</li> <li>• Caller ID</li> <li>• Corporate directory</li> </ul>

Feature	Cisco CE 9.1.1 Software
<p><b>Using the Cisco Proximity app to navigate the video system</b></p>	<ul style="list-style-type: none"> <li>• Conference (ad hoc)</li> <li>• Do Not Disturb (DND)</li> <li>• Extension Mobility service</li> <li>• Favorites</li> <li>• Hold (and Resume)</li> <li>• Join (ad hoc merge)</li> <li>• Message waiting indicator</li> <li>• Mute (audio and video)</li> <li>• Network profiles (automatic)</li> <li>• Self-View (video call)</li> <li>• One-Button-To-Push (OBTP)</li> <li>• Shared line</li> <li>• Single Number Reach (SNR)</li> <li>• Transfer</li> <li>• Voicemail</li> </ul> <p>When entering a room or area with a DX70 or DX80 endpoint, both the DX and the Cisco Proximity application visually indicate that they are paired or connected together. This pairing provides the following capabilities:</p> <ul style="list-style-type: none"> <li>• Video system control: Use the Cisco Proximity app on a mobile device to initiate, answer, or hang up a call on the on-premises registered endpoint. You can also move the call from the mobile device to the DX and visa versa</li> <li>• View shared content: Use the Cisco Proximity app on a mobile device to view the content being shared. Use the Cisco Proximity app on a laptop to share the content wirelessly in and out of a call</li> </ul> <p>The Cisco Proximity app on iOS, Android, Windows, and MacOS is enabled for pairing by default. Control is available to anyone with a Cisco Proximity app. Alternatively, users who do not have a mobile or desktop device or the Cisco Proximity app can control the system with the DX's touchscreen.</p>
<p><b>IP network features</b></p>	<ul style="list-style-type: none"> <li>• Domain Name System (DNS) lookup for service configuration</li> <li>• Differentiated Services (Quality of Service [QoS])</li> <li>• IP adaptive bandwidth management (including flow control)</li> <li>• Dynamic play out and lip-sync buffering</li> <li>• Date and Time support with Network Time Protocol (NTP)</li> <li>• Packet loss-based down speeding</li> <li>• URI Dialing</li> <li>• TCP/IP</li> <li>• Dynamic Host Configuration Protocol (DHCP)</li> <li>• 802.1x network authentication</li> <li>• 802.1Q virtual LAN</li> <li>• 802.1p (QoS and Class of Service [CoS])</li> <li>• Clear Path v1 and v2</li> </ul>
<p><b>In-room controls</b></p>	<p>With in-room controls, you can add custom elements to the user interface. Controls for lights, blinds, or other peripherals can be added to the DX interface.</p> <p>Custom panels creation from the web UI interface</p> <ul style="list-style-type: none"> <li>• Global panel accessible in the system bar tray</li> <li>• Home screen panel accessible from the control tray</li> <li>• In-call panel accessible from the in-call tray</li> </ul>
<p><b>Call control</b></p>	<ul style="list-style-type: none"> <li>• Cisco Unified Communications Manager (CUCM) <ul style="list-style-type: none"> <li>◦ Native table with CUCM</li> </ul> </li> <li>• Cisco Video Communication Server (VCS) <ul style="list-style-type: none"> <li>◦ Native registration with VCS</li> </ul> </li> <li>• Cisco Spark Service</li> <li>• Third-party H.323 Gatekeepers and standards-based SIP proxies</li> </ul>
<p><b>IPv6 network support</b></p>	<ul style="list-style-type: none"> <li>• Dual-stack IPv4 and IPv6 for DHCP, Secure Shell (SSH) Protocol, HTTP, Secure HTTP (HTTPS), DNS, and Differentiated Services (DiffServ)</li> <li>• Support for both static and auto configuration (stateless address auto configuration)</li> </ul>

Feature	Cisco CE 9.1.1 Software
<b>Security features</b>	<ul style="list-style-type: none"> <li>• Management through HTTPS and SSH</li> <li>• IP administration password</li> <li>• Menu administration password</li> <li>• Disable IP services</li> <li>• Network settings protection</li> </ul>
<b>System management</b>	<ul style="list-style-type: none"> <li>• Support for the Cisco Tele Presence Management Suite (TMS)</li> <li>• Total management through embedded Simple Network Management Protocol (SNMP), Telnet, SSH, XML, and Simple Object Access Protocol (SOAP)</li> <li>• Remote software upload: Through web server, HTTP, and HTTPS</li> </ul>
<b>Directory services</b>	<ul style="list-style-type: none"> <li>• Support for local directories (My Contacts)</li> <li>• Corporate directory (through Cisco Unified Communications Manager and Cisco TMS)</li> <li>• Server directory supporting Lightweight Directory Access Protocol (LDAP) and H.350 (requires Cisco Tele Presence Management Suite)</li> <li>• Call history with received, placed, and missed calls with date and time</li> </ul>
<b>Language support</b>	Arabic, Catalan, Czech, Danish, Dutch, English, Finnish, French, German, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese-Brazilian, Russian, Simplified Chinese, Spanish, Swedish, Traditional Chinese, and Turkish; depends on software version.

When registered to the Cisco Spark service, the DX70 and DX80 can call other endpoints including other Cisco room systems, tablets, PCs and Macs using URI dialing<sup>†</sup>. The services offered in this configuration are listed in [Table 5](#). Also, if you have meetings with more than three parties, you can use the DX70 and DX80 with any meeting services such as Cisco Spark meetings or Cisco WebEx<sup>®</sup> on Annuity.

**Table 5.** Software Features for the Cisco Spark Service or Cisco WebEx on Annuity

Feature	Cisco CE 9.1.1 Software for Cisco Spark Room System
<b>Calling into another audio or video device</b>	Video devices registered to a Cisco Spark system can call to any other Cisco Spark registered system as well as standards-based video and conferencing systems using URI dialing only. The Cisco Spark service enables video conferencing with Skype for Business.
<b>Bit rate and video quality</b>	Video calls will typically allow currently up to 720p30fps in a point-to-point call. In a multiparty call, a Cisco Spark system will send several independent streams and maintain a constant bit rate. In conditions where the network does not allow full bit rate, the rate will be automatically adjusted and the video gracefully degraded.
<b>Firewall traversal</b>	Cisco Spark meeting service does not require additional equipment for firewall traversal. Refer to this article for more information: <a href="https://support.ciscospark.com/customer/en/portal/articles/1911657-firewall-and-network-requirements-for-the-cisco-spark-app">https://support.ciscospark.com/customer/en/portal/articles/1911657-firewall-and-network-requirements-for-the-cisco-spark-app</a> .
<b>Video and audio standards</b>	Devices registered to Cisco Spark service will typically use H.264 for video and OPUS for audio.
<b>Video features</b>	<ul style="list-style-type: none"> <li>• On-screen layout control for video and presentation</li> <li>• Active control (participants list, active speaker and content sharing, and end participant call)</li> <li>• Self-View</li> </ul>
<b>Content sharing</b>	Up to 1080p5fps
<b>Pairing for room system control and moving calls</b>	When entering a room or area with a DX endpoint, both the DX and the Cisco Spark application visually indicate that they are paired or connected together. This pairing provides the following capabilities: <ul style="list-style-type: none"> <li>• Room system control: Use the Cisco Spark app on a mobile device to initiate, answer, or hang up a call on the Cisco Spark Room System</li> <li>• Move calls: Smoothly move a call from the Cisco Spark app on a mobile device to a Cisco DX when walking into the room. Or move a call from the Cisco DX to the Cisco Spark app when leaving the conference room</li> <li>• The Cisco Spark app on iOS and Android is enabled for pairing by default. Control is available to anyone with a Cisco Spark app, even the free version. Alternatively, users who do not have a mobile or desktop device or the Cisco Spark app can control the system with the DXs touch screen</li> </ul>

<sup>†</sup> **Note:** When registered to Cisco Spark service, the DXs do not have telephony capabilities, such as the ability to place or receive phone calls. They have URI dialing capabilities only.

For more information about Cisco Spark Room Systems, visit the Cisco Spark [data sheet](#).

**Table 6.** Wi-Fi Features and Specifications for Cisco Spark Service and On-Premises Registered Endpoints

Feature	Specifications		
<b>Protocol</b>	IEEE 802.11a, 802.11b, 802.11g, and 802.11n		
<b>Frequency band and operating channels</b>	<ul style="list-style-type: none"> <li>• 2.412–2.472 GHz (channels 1–13)</li> <li>• 5.180–5.240 GHz (channels 36–48)</li> <li>• 5.260–5.320 GHz (channels 52–64)</li> <li>• 5.500–5.700 GHz (channels 100–140)</li> <li>• 5.745–5.825 GHz (channels 149–165)</li> </ul> <p><b>Note:</b> IEEE 802.11d is used to identify available channels.</p>		
<b>Nonoverlapping channels</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz (20-MHz channels): Up to 3 channels</li> <li>• 5 GHz (20-MHz channels): Up to 24 channels</li> <li>• 5 GHz (40-MHz channels): Up to 9 channels</li> </ul>		
<b>Operating modes</b>	<ul style="list-style-type: none"> <li>• Auto (default), preference to strongest RSSI for 2.4 or 5 GHz</li> <li>• 2.4 GHz only</li> <li>• 5 GHz only</li> </ul>		
<b>Data rates</b>	<ul style="list-style-type: none"> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11b: 1, 2, 5.5, and 11 Mbps</li> <li>• 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11n: HT MCS 0, MCS 1, MCS 2, MCS 3, MCS 4, MCS 5, MCS 6, and MCS 7</li> </ul>		
<b>2.4-GHz receiver sensitivity</b>	IEEE 802.11b: <ul style="list-style-type: none"> <li>• 1 Mbps: –95 dBm</li> <li>• 2 Mbps: –93 dBm</li> <li>• 5.5 Mbps: –90 dBm</li> <li>• 11 Mbps: –86 dBm</li> </ul>	IEEE 802.11g: <ul style="list-style-type: none"> <li>• 6 Mbps: –89 dBm</li> <li>• 9 Mbps: –89 dBm</li> <li>• 12 Mbps: –87 dBm</li> <li>• 18 Mbps: –85 dBm</li> <li>• 24 Mbps: –81 dBm</li> <li>• 36 Mbps: –78 dBm</li> <li>• 48 Mbps: –74 dBm</li> <li>• 54 Mbps: –72 dBm</li> </ul>	IEEE 802.11n HT20: <ul style="list-style-type: none"> <li>• MCS 0: –88 dBm</li> <li>• MCS 1: –86 dBm</li> <li>• MCS 2: –84 dBm</li> <li>• MCS 3: –81 dBm</li> <li>• MCS 4: –78 dBm</li> <li>• MCS 5: –73 dBm</li> <li>• MCS 6: –71 dBm</li> <li>• MCS 7: –69 dBm</li> </ul>
<b>5-GHz receiver sensitivity</b>	IEEE 802.11a: <ul style="list-style-type: none"> <li>• 6 Mbps: –91 dBm</li> <li>• 9 Mbps: –91 dBm</li> <li>• 12 Mbps: –90 dBm</li> <li>• 18 Mbps: –88 dBm</li> <li>• 24 Mbps: –85 dBm</li> <li>• 36 Mbps: –81 dBm</li> <li>• 48 Mbps: –77 dBm</li> <li>• 54 Mbps: –76 dBm</li> </ul>	IEEE 802.11n HT20: <ul style="list-style-type: none"> <li>• MCS 0: –91 dBm</li> <li>• MCS 1: –89 dBm</li> <li>• MCS 2: –86 dBm</li> <li>• MCS 3: –84 dBm</li> <li>• MCS 4: –81 dBm</li> <li>• MCS 5: –76 dBm</li> <li>• MCS 6: –74 dBm</li> <li>• MCS 7: –72 dBm</li> </ul>	IEEE 802.11n HT40: <ul style="list-style-type: none"> <li>• MCS 0: –90 dBm</li> <li>• MCS 1: –87 dBm</li> <li>• MCS 2: –85 dBm</li> <li>• MCS 3: –81 dBm</li> <li>• MCS 4: –78 dBm</li> <li>• MCS 5: –74 dBm</li> <li>• MCS 6: –72 dBm</li> <li>• MCS 7: –70 dBm</li> </ul>
<b>Transmitter output power</b>	2.4 GHz: <ul style="list-style-type: none"> <li>• 802.11b: Up to 16 dBm</li> <li>• 802.11g: Up to 16 dBm</li> <li>• 802.11n HT20: Up to 15 dBm</li> </ul>	5 GHz: <ul style="list-style-type: none"> <li>• 802.11a: Up to 16 dBm</li> <li>• 802.11n HT20: Up to 15 dBm</li> <li>• 802.11n HT40: Up to 15 dBm</li> </ul>	
<b>Antenna</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz: 4.6 dBi peak gain</li> <li>• 5 GHz: 7.0 dBi peak gain</li> </ul>		
<b>Access-point support</b>	<ul style="list-style-type: none"> <li>• Cisco Unified Access Points                             <ul style="list-style-type: none"> <li>◦ Minimum: 7.0.240.0</li> <li>◦ Recommended: 7.4.121.0, 7.6.110.0, or later</li> </ul> </li> <li>• Cisco Autonomous Access Points                             <ul style="list-style-type: none"> <li>◦ Minimum: 12.4(21a)JY</li> <li>◦ Recommended: 12.4(25d)JA2 or later</li> </ul> </li> </ul>		



Feature	Specifications	
<b>Wireless security</b>	Authentication: <ul style="list-style-type: none"> <li>• Wi-Fi Protected Access (WPA) Versions 1 and 2 Personal and Enterprise</li> <li>• EAP-FAST</li> <li>• Protected Extensible Authentication Protocol - Microsoft Challenge Handshake Authentication Protocol Version 2 (PEAP-MSCHAPv2)</li> <li>• Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> <li>• EAP-TLS</li> </ul>	Encryption: <ul style="list-style-type: none"> <li>• Advanced Encryption Standard (AES)</li> </ul>
<b>Fast secure roaming</b>	Cisco Centralized Key Management (Cisco CKM)	
<b>QoS</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11e and Wi-Fi Multimedia (WMM)</li> <li>• Enhanced Distributed Channel Access (EDCA)</li> <li>• QoS Basic Service Set (QBSS)</li> </ul>	
<b>Radar detection</b>	Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) according to IEEE 802.11h	

**Table 7.** Software Features for the Android-Based Software

Feature	Specifications
<b>Android core features</b>	<ul style="list-style-type: none"> <li>• Fully customizable Cisco Launcher and App Tray “Home Screen” enables you to place your own application shortcuts, widgets, and folders</li> <li>• Home Screen supports up to five separate screen views or pages with a 12 x 9 icon grid</li> <li>• Landscape-orientated applications are supported</li> <li>• On-screen keyboard is supported</li> </ul>
<b>Android bundled applications and widgets</b>	<ul style="list-style-type: none"> <li>• Calculator</li> <li>• Calendar</li> <li>• Camera</li> <li>• Clock</li> <li>• Contacts</li> <li>• Direct dial</li> <li>• Email               <ul style="list-style-type: none"> <li>◦ Internet Message Access Protocol (IMAP)</li> <li>◦ Post Office Protocol 3 (POP3)</li> <li>◦ Microsoft Exchange ActiveSync</li> </ul> </li> <li>• Favorites</li> <li>• Gallery</li> <li>• Phone features (for example, forward all, privacy, Do Not Disturb [DND], mobility, and Self-View)</li> <li>• Wallpapers (including live wallpapers)</li> <li>• Web browser</li> </ul>
<b>Google bundled applications</b>	<ul style="list-style-type: none"> <li>• Google Play (enabled by administrator through Cisco Unified Communications Manager; includes country-approved Google mobile services applications)</li> <li>• Gmail</li> <li>• Google settings</li> <li>• Maps</li> <li>• Play Books</li> <li>• Play Magazines</li> <li>• Play Movies</li> <li>• Play Music</li> <li>• Google Now</li> </ul>
<b>Cisco bundled applications</b>	<ul style="list-style-type: none"> <li>• Cisco AnyConnect<sup>®</sup> Secure Mobility Client (VPN)</li> <li>• Cisco Jabber<sup>®</sup> Instant Messaging (which offers chat and presence capabilities)</li> <li>• Cisco WebEx conferencing</li> <li>• Quick Contact Badge (allows you to easily collaborate with your contacts to place a call, send an email message, send an Instant Message [IM], or start a WebEx<sup>®</sup> meeting)</li> <li>• Visual Voicemail</li> </ul>

Feature	Specifications
<b>Cisco Intelligent Proximity for Mobile Voice</b>	<ul style="list-style-type: none"> <li>• Contact synchronization with Bluetooth-paired, Android, or iOS mobile device that supports Bluetooth Phone Book Access Profile (PBAP)</li> <li>• Call-history synchronization to view placed or missed calls from mobile device on the DX80</li> <li>• Audio path routing, which sends audio through the DX80 for a mobile device-connected call</li> </ul>
<b>Configuration modes</b>	<ul style="list-style-type: none"> <li>• Enhanced, fully functional mode that enables all aspects of the phone including applications and accounts</li> <li>• Simple mode that hides applications and accounts and provides only voice and video call capabilities</li> <li>• Public mode based on simple mode with restrictions on user settings modifications</li> </ul>
<b>Application deployment options and management</b>	<ul style="list-style-type: none"> <li>• The administrator can disable downloading of all applications on the Cisco DX650, DX70, and DX80. Specifically, the administrator can configure the DX650, DX70, and DX80 to prohibit the installation of any third-party Android applications</li> <li>• Google Play access can be administratively disabled (default). Applications from “unknown sources” can be administratively disabled (default): <ul style="list-style-type: none"> <li>◦ The administrator can optionally install applications using Cisco Unified Communications Manager with the APK file</li> <li>◦ With Company Photo Directory (ability to set up and link photo directory URL image location associated with respective user), the administrator can set up and link a photo-directory URL image location associated with a respective user</li> </ul> </li> </ul>
<b>Built-in training and setup assistance</b>	<ul style="list-style-type: none"> <li>• Setup Assistant wizard (helps configure email, Jabber® IM, WebEx conferencing, and voicemail account settings)</li> </ul>
<b>Third-party application development</b>	<p>Cisco Collaboration Application Programming Interfaces (APIs) through a Software Developer Kit (SDK)</p> <p><a href="https://developer.cisco.com/site/dxseries/overview/index.gsp">https://developer.cisco.com/site/dxseries/overview/index.gsp</a>.</p>
<b>Language support</b>	<ul style="list-style-type: none"> <li>• Arabic, Egypt (ar_EG)</li> <li>• Bulgarian, Bulgaria (bg_BG)</li> <li>• Catalan, Spain (ca_ES)</li> <li>• Chinese, PRC (zh_CN)</li> <li>• Chinese, Taiwan (zh_TW)</li> <li>• Croatian, Croatia (hr_HR)</li> <li>• Czech, Czech Republic (cs_CZ)</li> <li>• Danish, Denmark (da_DK)</li> <li>• Dutch, Netherlands (nl_NL)</li> <li>• English, Britain (en_GB)</li> <li>• English, United States (en_US)</li> <li>• Finnish, Finland (fi_FI)</li> <li>• French, France (fr_FR)</li> <li>• German, Germany (de_DE)</li> <li>• Greek, Greece (el_GR)</li> <li>• Hebrew, Israel (he_IL)</li> <li>• Hungarian, Hungary (hu_HU)</li> <li>• Italian, Italy (it_IT)</li> <li>• Japanese (ja_JP)</li> <li>• Korean (ko_KR)</li> <li>• Latvian, Latvia (lv_LV)</li> <li>• Lithuanian, Lithuania (lt_LT)</li> <li>• Norwegian bokmål, Norway (nb_NO)</li> <li>• Polish (pl_PL)</li> <li>• Portuguese, Brazil (pt_BR)</li> <li>• Portuguese, Portugal (pt_PT)</li> <li>• Romanian, Romania (ro_RO)</li> <li>• Russian (ru_RU)</li> <li>• Serbian, Republic of Serbia (sr_RS)</li> <li>• Slovak, Slovakia (sk_SK)</li> <li>• Slovenian, Slovenia (sl_SI)</li> <li>• Spanish, Spain (es_ES)</li> <li>• Swedish, Sweden (sv_SE)</li> <li>• Thai, Thailand (th_TH)</li> <li>• Turkish, Turkey (tr_TR)</li> </ul>

Feature	Specifications
<b>Calling feature support</b>	<ul style="list-style-type: none"> <li>• + Dialing (ITU E.164)</li> <li>• Abbreviated dialing</li> <li>• Adjustable ringing and volume levels</li> <li>• Adjustable display brightness</li> <li>• Auto-answer</li> <li>• Auto-detection of headset</li> <li>• Barge (cBarge)</li> <li>• Callback</li> <li>• Call Chaperone</li> <li>• Call forward</li> <li>• Call forward notification</li> <li>• Call-history lists</li> <li>• Call park (including Directed Call Park and Assisted Directed Call Park)</li> <li>• Call pickup</li> <li>• Call timer</li> <li>• Call waiting</li> <li>• Caller ID</li> <li>• Corporate directory</li> <li>• Conference (ad hoc)</li> <li>• Direct transfer</li> <li>• Divert (iDivert)</li> <li>• Do Not Disturb (DND)</li> <li>• Cisco Extension Mobility service</li> <li>• Fast-dial service</li> <li>• Forced-access codes and client matter codes</li> <li>• Group call pickup</li> <li>• Hold (and Resume)</li> <li>• Intercom</li> <li>• International call logging</li> <li>• Join (ad hoc)</li> <li>• Last-Number Redial (LNR)</li> <li>• Malicious-caller ID</li> <li>• Message-Waiting Indicator (MWI)</li> <li>• Meet-me conference</li> <li>• Mobility (Cisco Mobile Connect and Mobile Voice Access)</li> <li>• Music On Hold (MoH)</li> <li>• Mute (audio and video)</li> <li>• Network profiles (automatic)</li> <li>• On- and off-network distinctive ringing</li> <li>• Personal directory</li> <li>• PickUp</li> <li>• Predialing before sending</li> <li>• Privacy</li> <li>• Private Line Automated Ringdown (PLAR)</li> <li>• Ring tone per line appearance</li> <li>• Self-View (video call)</li> <li>• Service URL</li> <li>• Shared line(s)</li> <li>• Silent Monitoring and Recording</li> <li>• Time and date display</li> <li>• Transfer (ad hoc)</li> <li>• Visual Voicemail</li> <li>• Voicemail</li> </ul>
<b>Emergency services</b>	Emergency Calling Service dialing.

Feature	Specifications
<b>Accessibility features</b>	<p>Additional accessibility features for the vision impaired, blind, and the hearing and mobility impaired include user-defined and customizable:</p> <ul style="list-style-type: none"> <li>• Display font size and screen brightness settings</li> <li>• Touchscreen customizable touch and hold delay</li> <li>• Talkback audio prompts and spoken password</li> <li>• Support for Explore by Touch features</li> </ul>
<b>Security Features</b>	
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• Secure boot</li> <li>• Secure credential storage</li> <li>• Device authentication</li> <li>• File authentication and encryption</li> <li>• Image authentication and encryption</li> <li>• Signaling authentication</li> <li>• Random bit generation</li> <li>• Hardware cryptographic acceleration</li> <li>• Encrypted configuration files</li> <li>• Encrypted file system</li> </ul>
<b>Certificate management</b>	<ul style="list-style-type: none"> <li>• Certificate Authority Proxy Function (CAPF) support for additional security</li> <li>• Manufacturer-Installed Certificates (MIC)</li> <li>• Locally Significant Certificates (LSC)</li> <li>• X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>• Wired: 802.1x supplicant options for network authentication use: <ul style="list-style-type: none"> <li>◦ Extensible Authentication Protocol: Extensible Authentication Protocol - Flexible Authentication via Secure Tunneling (EAP-FAST)</li> <li>◦ Extensible Authentication Protocol: EAP Transport Layer Security (EAP-TLS)</li> </ul> </li> <li>• Wireless (refer to Table 7): <ul style="list-style-type: none"> <li>◦ Wi-Fi Protected Access 2 (WPA2) (EAP-FAST)</li> <li>◦ Wireless Equivalent Privacy (WEP)</li> <li>◦ Wireless EAP-TLS</li> </ul> </li> <li>• Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> </ul>
<b>Media and data signaling</b>	<ul style="list-style-type: none"> <li>• TLS</li> <li>• Secure Real-Time Transport Protocol (SRTP)</li> <li>• HTTPS for clients</li> </ul>
<b>Enterprise access</b>	<ul style="list-style-type: none"> <li>• Cisco AnyConnect Secure Mobility Client</li> <li>• Web Proxy (manual configuration or autoconfiguration of Protected Access Credential [PAC] files)</li> <li>• NT LAN Manager (NTLM) and Kerberos authentication</li> </ul>
<b>Device management</b>	<ul style="list-style-type: none"> <li>• Remote wipe</li> <li>• ActiveSync remote wipe (email, contacts, calendar, etc.)</li> <li>• Self-service wipe</li> <li>• Wipe after unsuccessful login attempts</li> <li>• Factory reset</li> </ul>
<b>Policy management</b>	<ul style="list-style-type: none"> <li>• Password complexity</li> <li>• Ability to disable USB</li> <li>• Ability to disable speakerphone</li> <li>• Ability to disable headset</li> <li>• Secure digital I/O (SDIO) enable/disable</li> <li>• Bluetooth</li> <li>• Wi-Fi</li> <li>• Access to Android market</li> <li>• Screen lock and automatic lock (Personal Identification Number [PIN] or password) device</li> <li>• Android Debug Bridge (ADB)</li> </ul>
<b>Diagnostics</b>	<ul style="list-style-type: none"> <li>• The integrated Cisco Collaboration Problem Report Tool can send information directly to your system administrator when you experience problems with your phone or application (requires a configured email account)</li> </ul>

**Table 8.** Wi-Fi Features and Specifications for Android-Based Software

Feature	Specifications		
<b>Protocol</b>	IEEE 802.11a, 802.11b, 802.11g, and 802.11n		
<b>Frequency band and operating channels</b>	<ul style="list-style-type: none"> <li>• 2.412–2.472 GHz (channels 1–13)</li> <li>• 5.180–5.240 GHz (channels 36–48)</li> <li>• 5.260–5.320 GHz (channels 52–64)</li> <li>• 5.500–5.700 GHz (channels 100–140)</li> <li>• 5.745–5.825 GHz (channels 149–165)</li> </ul> <p><b>Note:</b> IEEE 802.11d is used to identify available channels.</p>		
<b>Nonoverlapping channels</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz (20-MHz channels): Up to 3 channels</li> <li>• 5 GHz (20-MHz channels): Up to 24 channels</li> <li>• 5 GHz (40-MHz channels): Up to 9 channels</li> </ul>		
<b>Operating modes</b>	<ul style="list-style-type: none"> <li>• Auto (default), preference to strongest RSSI for 2.4 or 5 GHz</li> <li>• 2.4 GHz only</li> <li>• 5 GHz only</li> </ul>		
<b>Data rates</b>	<ul style="list-style-type: none"> <li>• 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11b: 1, 2, 5.5, and 11 Mbps</li> <li>• 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54 Mbps</li> <li>• 802.11n: HT MCS 0, MCS 1, MCS 2, MCS 3, MCS 4, MCS 5, MCS 6, and MCS 7</li> </ul>		
<b>2.4-GHz receiver sensitivity</b>	IEEE 802.11b: <ul style="list-style-type: none"> <li>• 1 Mbps: –95 dBm</li> <li>• 2 Mbps: –93 dBm</li> <li>• 5.5 Mbps: –90 dBm</li> <li>• 11 Mbps: –86 dBm</li> </ul>	IEEE 802.11g: <ul style="list-style-type: none"> <li>• 6 Mbps: –89 dBm</li> <li>• 9 Mbps: –89 dBm</li> <li>• 12 Mbps: –87 dBm</li> <li>• 18 Mbps: –85 dBm</li> <li>• 24 Mbps: –81 dBm</li> <li>• 36 Mbps: –78 dBm</li> <li>• 48 Mbps: –74 dBm</li> <li>• 54 Mbps: –72 dBm</li> </ul>	IEEE 802.11n HT20: <ul style="list-style-type: none"> <li>• MCS 0: –88 dBm</li> <li>• MCS 1: –86 dBm</li> <li>• MCS 2: –84 dBm</li> <li>• MCS 3: –81 dBm</li> <li>• MCS 4: –78 dBm</li> <li>• MCS 5: –73 dBm</li> <li>• MCS 6: –71 dBm</li> <li>• MCS 7: –69 dBm</li> </ul>
<b>5-GHz receiver sensitivity</b>	IEEE 802.11a: <ul style="list-style-type: none"> <li>• 6 Mbps: –91 dBm</li> <li>• 9 Mbps: –91 dBm</li> <li>• 12 Mbps: –90 dBm</li> <li>• 18 Mbps: –88 dBm</li> <li>• 24 Mbps: –85 dBm</li> <li>• 36 Mbps: –81 dBm</li> <li>• 48 Mbps: –77 dBm</li> <li>• 54 Mbps: –76 dBm</li> </ul>	IEEE 802.11n HT20: <ul style="list-style-type: none"> <li>• MCS 0: –91 dBm</li> <li>• MCS 1: –89 dBm</li> <li>• MCS 2: –86 dBm</li> <li>• MCS 3: –84 dBm</li> <li>• MCS 4: –81 dBm</li> <li>• MCS 5: –76 dBm</li> <li>• MCS 6: –74 dBm</li> <li>• MCS 7: –72 dBm</li> </ul>	IEEE 802.11n HT40: <ul style="list-style-type: none"> <li>• MCS 0: –90 dBm</li> <li>• MCS 1: –87 dBm</li> <li>• MCS 2: –85 dBm</li> <li>• MCS 3: –81 dBm</li> <li>• MCS 4: –78 dBm</li> <li>• MCS 5: –74 dBm</li> <li>• MCS 6: –72 dBm</li> <li>• MCS 7: –70 dBm</li> </ul>
<b>Transmitter output power</b>	2.4 GHz: <ul style="list-style-type: none"> <li>• 802.11b: Up to 16 dBm</li> <li>• 802.11g: Up to 16 dBm</li> <li>• 802.11n HT20: Up to 15 dBm</li> </ul>	5 GHz: <ul style="list-style-type: none"> <li>• 802.11a: Up to 16 dBm</li> <li>• 802.11n HT20: Up to 15 dBm</li> <li>• 802.11n HT40: Up to 15 dBm</li> </ul>	
<b>Antenna</b>	<ul style="list-style-type: none"> <li>• 2.4 GHz: 4.6 dBi peak gain</li> <li>• 5 GHz: 7.0 dBi peak gain</li> </ul>		
<b>Access-point support</b>	<ul style="list-style-type: none"> <li>• Cisco Unified Access Points                             <ul style="list-style-type: none"> <li>◦ Minimum: 7.0.240.0</li> <li>◦ Recommended: 7.4.121.0, 7.6.110.0, or later</li> </ul> </li> <li>• Cisco Autonomous Access Points                             <ul style="list-style-type: none"> <li>◦ Minimum: 12.4(21a)JY</li> <li>◦ Recommended: 12.4(25d)JA2 or later</li> </ul> </li> </ul>		

Feature	Specifications
<b>Wireless security</b>	<p>Authentication:</p> <ul style="list-style-type: none"> <li>• Wi-Fi Protected Access (WPA) Versions 1 and 2 Personal and Enterprise</li> <li>• EAP-FAST</li> <li>• Protected Extensible Authentication Protocol - Microsoft Challenge Handshake Authentication Protocol Version 2 (PEAP-MSCHAPv2)</li> <li>• Protected Extensible Authentication Protocol - Generic Token Card (PEAP-GTC)</li> <li>• EAP-TLS</li> </ul> <p>Encryption:</p> <ul style="list-style-type: none"> <li>• 40- and 128-bit static Wired Equivalent Privacy (WEP)</li> <li>• Temporal Key Integrity Protocol (TKIP) and Message Integrity Check (MIC)</li> <li>• Advanced Encryption Standard (AES)</li> </ul>
<b>Fast secure roaming</b>	Cisco Centralized Key Management (Cisco CKM)
<b>QoS</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11e and Wi-Fi Multimedia (WMM)</li> <li>• Enhanced Distributed Channel Access (EDCA)</li> <li>• QoS Basic Service Set (QBSS)</li> </ul>
<b>Radar detection</b>	Dynamic Frequency Selection (DFS) and Transmit Power Control (TPC) according to IEEE 802.11h

## Licensing

Phone licensing depends on the call-control platform and its policies. For the Cisco Unified Communications Manager, the Cisco DX70 requires a minimum-level Enhanced IP User Connect License (UCL). There are no special licenses plus phone bundles for tier-2 distributors. The DX80 is not supported on third-party call-control systems.

## Warranty Information

The DX Series endpoints are covered by the Cisco 1-Year Limited Hardware Warranty. Find warranty information on Cisco.com at the [Product Warranties](#) page.

## Ordering Information

Tables 9 through 11 give ordering information to help customers understand all the components or parts they need to purchase in order to install and use the product.

To place an order, visit the [Cisco Ordering Home Page](#). To download software, visit the [Cisco Software Center](#).

**Table 9.** Ordering Information for On-Premises Deployment

This configuration is for on-premises registration to VCS, Cisco Unified Communications Manager, or third-party call control.

Product Name	Part Number
Cisco DX70 – GPL*	CP-DX70-W-K9=
Cisco DX70, for U.S. Government (Trade Agreement Act compliant) - GPL*	CP-DX70-W-K9++=

**Table 10.** Ordering Information for Cloud Deployment

This configuration is for registration to the Cisco Spark service and requires a Cisco Spark subscription.

Product Name	Part Number
Cisco DX70 – MSRP*	CS-DX70-K9=
Cisco Spark service registration for small rooms and desks	A-SPK-SH-RMS

\*GPL = Global Price List

\*MSRP = Manufacturer's Suggested Retail Price

**Table 11.** Replacement Parts

Product Name	Part Number
Ethernet grey cable for Cisco DX70	CAB-GREY-2.9M=
Foot stand for Cisco DX70	CP-DX70-FS=
Power transformer for the DX70 and DX80 series	CP-PWR-CUBE-5=

**Table 12.** Accessories

Product Name	Part Number
Cisco VESA adapter and wall mounting option	CP-DX70-VESA=
HDMI-to-HDMI cable, 3m	CAB-DX-2HDMI-3M

## Cisco Services

Cisco Services make networks, applications, and the people who use them work better together.

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## Cisco Capital

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### For More Information

For more information about the Cisco DX80, visit <https://www.cisco.com/go/dx> or contact your local Cisco account representative.



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