

# Refurbished CISCO CTS-SX80-IPST60-K9 Datasheet

CISCO > COLLABORATION-ENDPOINTS

## Cisco TelePresence SX Series

### Feature Summary

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<b>Design features</b>	<p>One of the most powerful and feature-rich codecs available with the ultimate in video and audio quality</p> <p>The next generation HD video collaboration codec</p> <p>1 Rack Unit (1RU) high, rack-mountable, with rack-mounting solution included</p> <p>Professional-grade connectors</p> <p>Unmatched quality and flexibility</p> <p>Standards-compliant 1080p solution - compatible with standards-based video without losing features</p>
<b>Application features</b>	<p>Supports Cisco Intelligent Proximity for content sharing to mobile devices and wireless sharing from Macs and PCs</p> <p>Supports Switched Conferencing (SVC) for enhanced layouts and enabling video on both screens of dual screen endpoints</p> <p>Easily control room peripherals such as lights, room dividers, curtains, directly from the Cisco Touch 10 control unit through customizable API (requires external third-party control system processor)</p> <p>Participate in white boarding sessions from Cisco Webex Teams app; receive on-screen notification of shared white board content (supported on cloud-registered devices)</p> <p>1080p30 HD embedded Cisco TelePresence MultiSite with individual transcoding</p> <p>Collaborate with four simultaneous video inputs</p> <p>HD collaboration with 1080p60 video and 1080p30 content</p> <p>Simplified meeting-join experience with One Button to Push (OBTP) for scheduled devices in Cisco Webex meetings, whether registered on-prem or to the cloud</p> <p>Limitless integration possibilities</p> <p>Ideal for team-based collaboration, boardrooms, meeting rooms, and industry applications</p>
<b>Performance features</b>	<p>Optimal definition up to 1080p60</p> <p>H.323/SIP up to 10 Mbps point-to-point</p> <p>Up to 10 Mbps total MultiSite bandwidth</p> <p>Ability to connect up to four HD sources and 8 microphones directly to the codec</p> <p>Full duplex audio with high-quality stereo sound</p> <p>Full Application Programming Interface (APIs)</p> <p>Ability to take advantage of Cisco TelePresence Total Solution Management, transcoded HD MultiSite, recording and streaming, and firewall traversal</p> <p>Cisco TelePresence ClearPath packet loss protection technology for optimal experience</p> <p>Cisco Unified Communications Manager native support (requires Cisco Unified Communications Manager version 8.6 or higher)</p>

### Product Specifications

#### Specification

<b>Software compatibility</b>	<p>Software Version TC 7.1 or later</p> <p>Cisco Collaboration Endpoint Software 8.0 or later</p>
<b>Language support</b>	<p>English, Arabic, Catalan, Czech, Danish, Dutch, 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</p>
<b>Bandwidth</b>	<p>H.323/SIP up to 6 Mbps point-to-point</p> <p>Up to 10 Mbps total MultiSite bandwidth</p>
<b>Minimum bandwidth for resolution/ frame rate (H.264)</b>	<p>720p30 from 768 kbps</p> <p>720p60 from 1152 kbps</p> <p>1080p30 from 1472 kbps</p> <p>1080p60 from 2560 kbps</p>
<b>Firewall traversal</b>	<p>Cisco TelePresence Expressway technology</p> <p>H.460.18 and H.460.19 firewall traversal</p>
<b>Video standards</b>	<p>H.261, H.263, H.263+, H.264 and H.265 (SIP only for H.265)</p>

<b>Video features</b>	Advanced screen layouts Custom video layouts Local auto layout
<b>Video outputs (three outputs)</b>	
<b>Video outputs (three outputs)</b>	Two HDMI Outputs and one DVI-I Output; supported formats: 1920 x 1080@60 Hz (1080p60) 1920 x 1080@50 Hz (1080p50) 1280 x 720@60 Hz (720p60) 1280 x 720@50 Hz (720p50) 1920 x 1200@60 Hz (WUXGA) 1920 x 1200@50 Hz (WUXGA) VESA Monitor Power Management Extended Display Identification Data (EDID)
<b>Live video resolutions (encode and decode)</b>	176 x 144@30 frames per second (fps) (QCIF) 352 x 288@30 fps (CIF) 512 x 288@30 fps (w288p) 576 x 448@30 fps (448p) 768 x 448@30 fps (w448p) 704 x 576@30 fps (4CIF) 1024 x 576@30 fps (w576p) 1280 x 720@30 fps (720p30) 1920 x 1080@30 fps (1080p30) 1920 x 1200@15fps (WUXGA) 640 x 480@30 fps (VGA) 800 x 600@30 fps (SVGA) 1024 x 768@30 fps (XGA) 1280 x 1024@30 fps (SXGA) 1280 x 768@30 fps (WXGA) 1440 x 900@30 fps (WXGA+) 1680 x 1050@30 fps (WSXGA+) 1920 x 1200@15fps (WUXGA) 512 x 288@60 fps (w288p60) 768 x 448@60 fps (w448p60) 1024 x 576@60 fps (w576p60) 1280 x 720@60 fps (720p60) 1920 x 1080@60 fps (1080p60)
<b>Audio standards</b>	G.711, G.722, G.722.1, G.728, G.729AB, 64 kbps and 128 kbps MPEG4 AAC-LD mono and stereo, OPUS
<b>Audio features</b>	CD-quality 20 kHz mono and stereo Eight separate acoustic echo cancellers Eight-port audio mixer Eight assignable equalizers Automatic Gain Control (AGC) Automatic noise reduction Active lip synchronization
<b>Audio inputs (fifteen inputs)</b>	Eight microphones, 48V phantom powered, Euroblock connector, each with separate echo cancellers and noise reduction; all microphones can be set for balanced line level Four balanced line level inputs, Euroblock connector Three HDMI, digital: stereo PC/DVD input
<b>Audio outputs (eight outputs)</b>	Six balanced line level outputs, Euroblock connector Two HDMI outputs
<b>Dual stream</b>	H.239 (H.323) dual stream BFCP (SIP) dual stream Support for resolutions up to 1080p30, and independent of main stream resolution
<b>Multipoint support</b>	Five way embedded SIP/H.323 multipoint (reference MultiSite) Cisco ad-hoc conferencing (requires CUCM, Cisco TelePresence Server and Conductor) Cisco Conferencing Active Control Switched Conferencing (SVC)
<b>MultiSite features (embedded multipoint)</b>	Five way 720p30, three way and four way 1080p30 MultiSite Full individual audio and video transcoding Individual layouts in MultiSite continuous presence H.323/SIP/VoIP in the same conference Support for Presentation (H.239/BFCP) from any participant at resolutions up to 1080p15 Best Impression (Automatic continuous presence layouts) H.264, encryption, and dual stream from any site Additional telephone call (no license required) IP downspeeding Dial in and dial out Conference rates up to 10 Mbps
<b>Protocols</b>	H.323 SIP Dual call stack support (SIP and H.323)

	ISDN (requires Cisco ISDN Link)
<b>Embedded encryption</b>	H.323/SIP point-to-point Standards-based: H.235 v3 and Advanced Encryption Standard (AES) Automatic key generation and exchange Supported in dual stream
<b>IP network features</b>	DNS lookup for service configuration Differentiated Services (QoS) IP adaptive bandwidth management (including flow control) Auto gatekeeper discovery Dynamic playout and lip-sync buffering H.245 DTMF tones in H.323 Date and Time support via NTP Packet Loss based downspeeding URI Dialing TCP/IP DHCP 802.1x Network authentication 802.1Q Virtual LAN 802.1p (QoS and Class of Service [CoS]) ClearPath RFC 4733 DTMF tones in SIP
<b>Call control</b>	Cisco Unified Communications Manager (CUCM) Native registration with CUCM Requires CUCM Version 8.6(2) or later with device pack for SX80 Basic CUCM provisioning Firmware upgrade from CUCM Cisco Discovery Protocol and DHCP option 150 support Basic telephony features such as hold, resume, transfer, and corporate directory lookup Cisco Video Communication Server (VCS) Native registration with VCS Cisco Webex Third-party H.323 Gatekeepers and standards-based SIP proxies
<b>IPv6 network support</b>	Single call stack support for both H323 and SIP Dual-stack IPv4 and IPv6 for DHCP, Secure Shell (SSH), HTTP, Secure HTTP (HTTPS), DNS, and Differentiated Services (DiffServ) Support for both static and autoconfiguration (stateless address auto configuration)
<b>Security features</b>	Management through HTTPS and SSH IP administration password Menu administration password Disable IP services Network settings protection
<b>Certificate management</b>	Certificate Authority Proxy Function (CAPF) support for additional security Manufacturer-Installed Certificates (MIC) Locally Significant Certificates (LSC) 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
<b>Network interfaces</b>	One LAN/Ethernet (RJ-45) 10/100/1000 Mbit Two LAN/Ethernet (RJ-45) interfaces to be used for Cisco peripherals
<b>Other interfaces</b>	Two USB hosts for future usage GPIO
<b>System management</b>	Support for Cisco TelePresence Management Suite (TMS) Management via embedded Telnet, SSH, XML, and SOAP Full Application Programming Interface (APIs) Remote software upload via web server, SCP, HTTP, and HTTPS One RS-232 for local control and diagnostics Support for Cisco Touch 10
<b>Directory services</b>	Support for local directories (My Contacts) Corporate directory (through CUCM and Cisco TMS) Server directory supporting LDAP and H.350 (requires Cisco TelePresence Management Suite) Call History with received, placed and missed calls with date and time
<b>Power</b>	Auto-sensing power supply 100-120/200-240 VAC, 50/60 Hz 170 watt maximum for codec and main camera
<b>Operating temperature and humidity</b>	0 to 40° (32 to 104° F) ambient temperature 10 to 90% Relative Humidity (RH)
<b>Storage and transport temperature</b>	-20° C to 60° C (-4° F to 140° F) at RH 10-90% (non-condensing)
<b>Dimensions</b>	Length: 17.4 in. (44.2 cm) Height: 1.7 in (4.4 cm) Depth: 12.2 in. (30.98 cm)

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Weight: 8.05 lbs. (3.65 kg)

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**Regulatory Compliance**

Directive 2006/95/EC (Low Voltage Directive) - Standard EN 60950-1  
Directive 2004/108/EC (EMC Directive) - Standard EN 55022, Class A - Standard EN 55024 - Standard EN 61000-3-2/-3-3  
Approved according to UL 60950-1 and CAN/CSA-C22.2 No. 60950-1  
Complies with FCC CFR 47 15B, Class A

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## Cisco SX80 Codec Deliverables

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### Integrator packages\*

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**Cisco SX80 Codec, Precision 60 Camera, and Touch 10**

SX80 Codec, rack ears, power cables, presentation cable  
Precision 60 Camera 20x, power supply  
Touch 10, gray Ethernet cable, and power injector

**Cisco SX80 Codec, SpeakerTrack60 Microphone Array, and Touch 10**

SX80 Codec, rack ears, power cables, presentation cable  
Touch 10, gray Ethernet cable, and power injector  
SpeakerTrack 60 unit; refer to separate data sheet for details

**Cisco SX80 Codec, Quad Camera, and Touch 10**

SX80 Codec, rack ears, power cables, presentation cable  
Quad Camera, power supply  
Touch 10, gray Ethernet cable, and power injector

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## The next steps...

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