

# Refurbished CISCO TTC7-23 Datasheet

CISCO > COLLABORATION-ENDPOINTS

## Cisco Webex Room Series

| Specifications                                                     |                                                                                                                                                                                                     |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification                                                      |                                                                                                                                                                                                     |
| <b>Software compatibility</b>                                      | Cisco Collaboration Endpoint Software Version 9.0 or later, and Cisco Webex Room OS                                                                                                                 |
| <b>Optional hardware components</b>                                | Cisco Table Microphone 20<br>Microphone extension cable<br>HDMI second monitor cable 1.5 m/4.9 ft.<br>HDMI presentation cable 8 m/26.2 ft.                                                          |
| <b>Bandwidth</b>                                                   | Up to 6 Mbps point-to-point                                                                                                                                                                         |
| <b>Minimum bandwidth for resolution/ frame rate</b>                | H.264:<br>720p30 from 768 kbps<br>720p60 from 1152 kbps<br>1080p30 from 1472 kbps<br>1080p60 from 2560 kbps                                                                                         |
| <b>Firewall traversal</b>                                          | Cisco Expressway technology<br>H.460.18, H.460.19 firewall traversal                                                                                                                                |
| <b>Video standards</b>                                             | H.264, H.265                                                                                                                                                                                        |
| <b>Video inputs</b>                                                | One HDMI input supports formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60 Consumer Electronics Control (CEC) 2.0                                                                 |
| <b>Video outputs</b>                                               | Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60)<br>Live video resolutions (encode and decode) up to 1920 x 1080p30 and p60 (HD1080p)<br>Consumer Electronics Control (CEC) 2.0        |
| <b>Audio standards</b>                                             | G.711, G.722, G.722.1, G.729, AAC-LD, and Opus                                                                                                                                                      |
| <b>Audio features</b>                                              | High-quality 20 kHz audio<br>Prepared for subwoofer (line out)<br>Prepared for inductive loop (line out)<br>Automatic Gain Control (AGC)<br>Automatic noise reduction<br>Active lip synchronization |
| <b>Audio inputs</b>                                                | Two microphones, 4-pin mini-jack<br>One audio in from HDMI<br>Internal microphone                                                                                                                   |
| <b>Audio outputs (external)</b>                                    | 1 line out mini-jack (stereo)                                                                                                                                                                       |
| <b>Speakers (integrated)</b>                                       | High-quality speakers: five speakers in balanced configuration<br>Frequency response 70 Hz to 20 kHz<br>Amplifier power: 24W<br>Max output level SPL 86 dB                                          |
| <b>Speaker tracking</b>                                            | 6-element microphone array for accurate speaker tracking                                                                                                                                            |
| <b>Dual stream</b>                                                 | H.239 (H.323) dual stream<br>Binary Floor Control Protocol (BFCP) (SIP) dual stream<br>Supports resolutions up to 3840 x 2160p5                                                                     |
| <b>Wireless sharing</b>                                            | Cisco Webex Teams appt (up to 3840 x 2160p5)<br>Cisco Intelligent Proximity client (up to 1920 x 1080p5)                                                                                            |
| MultiSite features (embedded multipoint) (optional upgrade)        |                                                                                                                                                                                                     |
| <b>MultiSite features (embedded multipoint) (optional upgrade)</b> | Adaptive SIP/H.323 MultiSite:<br>3-way resolution up to 1080p30 + content up to 4Kp5<br>4-way resolution up to 720p30 + content up to 4Kp5<br>Full individual audio and video transcoding           |

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | H.323/SIP/VoIP in the same conference<br>Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5<br>Best Impression (automatic continuous presence layouts)<br>Encryption and dual stream from any site                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protocols</b>                          | H.323<br>SIP<br>Cisco Webex                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Embedded encryption</b>                | H.323 and SIP point-to-point<br>Standards-based: H.235 v3 and Advanced Encryption Standard (AES)<br>Automatic key generation and exchange                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>IP network features</b>                | DNS lookup for service configuration<br>Differentiated services (Quality of Service [QoS])<br>IP-adaptive bandwidth management (including flow control)<br>Automatic gatekeeper discovery<br>Dynamic playout and lip-sync buffering<br>H.245 Dual-Tone Multifrequency (DTMF) tones in H.323<br>RFC 4733 DTMF tones in SIP<br>Date and time support using Network Time Protocol (NTP)<br>Media adaptation and resilience<br>Uniform Resource Identifier (URI) dialing<br>Dynamic Host Configuration Protocol (DHCP)<br>802.1X network authentication<br>802.1Q Virtual LAN<br>802.1p (QoS and Class of Service [CoS]) |
| <b>Call Control</b>                       | Cisco Unified Communications Manager (CUCM)<br>Native registration with CUCM<br>Requires CUCM Version 10.5.2 or later with device pack for Room Kit<br>Cisco Expressway<br>Native registration with Expressway<br>Cisco Webex Service<br>Third-party H.323 Gatekeepers and standards-based SIP proxies                                                                                                                                                                                                                                                                                                               |
| <b>IPv6 network support</b>               | Single call stack support for both H.323 and SIP<br>Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ<br>Support for both static and automatic IP configuration (stateless address auto configuration)                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Security features</b>                  | Management using HTTPS and SSH<br>IP administration password<br>Menu administration password<br>Disable IP services<br>Network settings protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Certificate management</b>             | Certificate Authority Proxy Function (CAPF) support for additional security<br>Manufacturer-Installed Certificates (MIC)<br>Locally Significant Certificates (LSC)<br>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 Ethernet (RJ-45) 10/100/1000 for LAN<br>One Ethernet (RJ-45) for Cisco Touch 10 direct pairing<br>Wi-Fi 802.11a/b/g/n/ac 2.4 GHz/5 GHz, 2x2 MIMO                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Other interfaces</b>                   | USB 2.0 port, mUSB, factory reset pinhole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Power</b>                              | 100 to 240 VAC, 50/60 Hz, 12V DC input<br>Average 20W, peak 70W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Operating temperature and humidity</b> | 0°C to 40°C (32°F to 104°F) ambient temperature<br>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% to 90% (noncondensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Locking mechanism</b>                  | Kensington security lock                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dimensions</b>                         | Width: 27.5 in. (70.0 cm)<br>Height: 3.5 in. (10.6 cm)<br>Depth: 2.9 in. (8.8 cm)<br>Weight: 7 lb. (3.2 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Camera Overview</b>                    | 5K UltraHD camera<br>Supports up to 60 fps (max 30 fps with speaker tracking and best overview enabled)<br>15.1 MP image sensor (5184 x 2916 pixels)<br>1/1.7 CMOS<br>3x zoom<br>f/2.0 aperture<br>83° horizontal field of view; 51.5° vertical field of view<br>Auto framing (audio + face detect)<br>Auto focus, brightness, and white balance<br>Focus distance 1 m to infinity                                                                                                                                                                                                                                   |

## The next steps...

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