Cisco Webex Room Kit Plus

Contents

Cisco Webex Room Kit Plus is a powerful collaboration solution that integrates with flat-panel displays to bring more intelligence and usability to your medium to large-sized meeting rooms – whether registered on the premises or to Cisco Webex in the cloud.

Product overview

Cisco Webex™ Room Kit Plus delivers the unmatched video and audio experience customers have come to expect from Cisco. In addition, new capabilities enable even smarter meetings, smarter presentation capabilities, and smarter room and device integrations – further removing the barriers to usage and deployment of video in medium to large-sized rooms.

The Room Kit Plus – comprising a powerful codec and a quad-camera bar with integrated speakers and microphones[*] – is ideal for rooms that seat up to 14 people. It offers sophisticated camera technologies that bring speaker-tracking and auto-framing capabilities to medium to large-sized rooms. The product is rich in functionality and experience but is priced and designed to be easily scalable to all of your conference rooms and spaces – whether registered on the premises or to Cisco Webex.

Figure 1.
Cisco Webex Room Kit Plus in Large Conference Room

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[*] Integrated microphones for speaker tracking only

Product features and benefits

Feature	Benefit
Smart meetings	• Brings intelligent views to medium to large-sized rooms with discreet, integrated cameras 　◦ Best overview: Automatically detects meeting participants and provides ideal framing 　◦ Speaker tracking: Detects and switches between active speakers and provides ideal framing • Great audio experience with integrated speakers • Automatic noise suppression reduces disruptive sounds coming from the meeting room (e.g., typing, paper rustling) • Simplified meeting-join experience with One Button To Push (OBTP) for scheduled devices in a Cisco Webex meetings, whether registered on-prem or to Cisco Webex • Automatic wake-up: System "wakes up" when someone walks into the room, and recognizes them through their mobile device • Easily controlled by the Cisco Touch 10 control unit or with a Cisco Webex Teams app • End-to-end security
Smart presentations	• Supports dual screens for video and content • Supports dual content sources for local meetings • View white board content and annotations shared from Cisco Webex Board, Cisco Webex DX80, or Cisco Webex Teams app; participate in white boarding sessions through Cisco Webex Teams app • 4K content sharing (local 30 fps; remote 5 fps) • Wired or wireless content sharing
Smart integrations	• Metrics: Counts people in the room, enabling analytics for better resource planning • Automatic screen/display integration through HDMI CEC • Supports Wi-Fi • Control system integration: Control peripherals such as lights and blinds through the Cisco Touch 10
Built for cloud and premises	• Flexibility to register on the premises or to the cloud through Cisco Webex • Hardware is optimized to run on a cloud platform, for great experiences in shared rooms and spaces with easy access to hosted conferences

Cisco Webex Room Kit Plus prominent feature/differentiator

Bringing more intelligence to medium to large-sized rooms

The Cisco Webex Room Kit Plus is video innovation in a box, bringing more intelligence and usability to your medium to large-sized rooms team collaboration rooms. While others are still struggling to insert advanced features such as speaker tracking, wireless sharing, and 4K content into their high-end products, Cisco is already proliferating these innovations to meeting rooms of all sizes in a cost-effective and simple way. With the Room Kit Plus, Cisco is helping customers experience smarter meetings, enable smarter presentations, and create smarter room and device integrations. These features were previously the domain of higher-end video conferencing rooms, but can now be brought to every room and every team. And when registered to Cisco Webex, additional cloud-based functionalities are enabled that enhance the user experience and team workflow as well as further simplifying deployment.

- **Smart meetings:** Powerful, integrated cameras deliver intelligent view capabilities, such as automatic framing and speaker tracking; automatic noise suppression reduces meeting disruptions
- **Smart presentations:** Dual screens, dual content sources, wireless sharing, and 4K content make for great presentations
- **Smart rooms:** People count for usage metrics and resource allocation; tight integrations with screens to enhance user interactions; APIs and macros allow meeting personalization

- **Audio-visual integration**: The Codec Plus is an entry-level integrator codec, supporting third-party audio systems. Control systems can use RS-232 with a USB adapter, or SSH.
- **Registration flexibility:** Built for both cloud and on-premises deployment, protecting your investment

An affordable way to purchase hardware

Cisco Webex Hardware as a Service provides a new way to purchase hardware with a simple, scalable and flexible way to pay. Stay up to date with the latest models of IP Phones and Webex Devices to enhance collaboration and create workspaces for the future. And get ready for all the power of Cisco's unified cloud platform! Learn more about Webex Hardware as a Service and the devices available.
Click here to access the Webex Hardware as a Service data sheet.

Product specifications

Table 1. Specifications

Specification	Description
Software compatibility	• Cisco Collaboration Endpoint Software Version 9.0 or later, or Cisco Webex Room OS
Default components in Cisco Webex Room Kit Plus	• Cisco Webex Codec Plus • Cisco Webex Quad Camera • Cisco Touch 10 control unit • Wall mount for Quad Camera
Optional hardware components	• Cisco Table Microphone, Wall mount for Codec Plus, cables
Bandwidth	• Up to 6 Mbps point-to-point
Minimum bandwidth for resolution/frame rate	H.264 • 720p30 from 768 kbps • 720p60 from 1152 kbps • 1080p30 from 1472 kbps • 1080p60 from 2560 kbps
Firewall traversal	• Cisco Expressway™ technology • H.460.18, H.460.19 firewall traversal
Video standards	• H.264, H.265, and H.263 for TANDBERG™ MXP interoperability only
Video inputs	• One HDMI input supports formats up to maximum 1080p60 • Two HDMI inputs support formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60 • Extended Display Identification Data (EDID) • Consumer Electronics Control (CEC) 2.0
Video outputs	• Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60) • Consumer Electronics Control (CEC) 2.0
Encode and decode	• Main video: Full HD 1080p60 • Presentation channel: UHD 4K 2160p5, including 1080p30 and 720p60

Specification	Description
Audio standards	• G.711, G.722, G.722.1, G.729, AAC-LD, and Opus
Audio features	• High-quality 20 kHz audio • Subwoofer line out for Quad Camera • Prepared for inductive loop (line out) • Automatic Gain Control (AGC) • Automatic noise reduction • Active lip synchronization
Audio inputs	• Three microphones, 4-pin mini-jack • Embedded audio on two HDMI inputs
Audio outputs	• 1 line out mini-jack (stereo) (Codec Plus) • 1 RCA output for subwoofer (Quad Camera) • Embedded audio on one HDMI output • HDMI input #1 supports Audio Return Channel (ARC): Audio output to Quad Camera
Speakers (Quad Camera)	• High-quality speakers • Frequency response: 70 Hz to 20 kHz • Max output level SPL 90dB
Speaker tracking (Quad Camera, SpeakerTrack 60)	• 6-element microphone array for accurate speaker tracking
Dual stream	• H.239 (H.323) dual stream • Binary Floor Control Protocol (BFCP) (SIP) dual stream • Support resolutions up to 3840 x 2160p5 (4Kp5),1080p30 and 720p60
Wireless sharing	• Cisco Webex Teams app (up to 3840 x 2160p5) • Cisco Intelligent Proximity client (up to 1920 x 1080p5)

MultiSite features
(embedded multipoint)
(optional upgrade)
	• Adaptive SIP/H.323 MultiSite
	  ◦ 3-way resolution up to 1080p30 + content up to 4Kp5
	  ◦ 4-way resolution up to 720p30 + content up to 4Kp5
	• Full individual audio and video transcoding
	• H.323/SIP/VoIP in the same conference
	• Support for presentation (H.239/BFCP) from any participant at resolutions up to 3840 x 2160p5
	• Best Impression (automatic continuous presence layouts)
	• Encryption and dual stream from any site

Protocols	• H.323 • SIP • Cisco Webex • ISDN PRI/BRI using the optional ISDN Link
Embedded encryption	• H.323 and SIP point-to-point • Standards-based: H.235 v3 and Advanced Encryption Standard (AES) • Automatic key generation and exchange
IP network features	• DNS lookup for service configuration • Differentiated services (Quality of Service [QoS])

Specification	Description
	• IP-adaptive bandwidth management (including flow control)
	• Automatic gatekeeper discovery
	• Dynamic playout and lip-sync buffering
	• H.245 Dual-Tone Multi-Frequency (DTMF) tones in H.323
	• RFC 4733 DTMF tones in SIP
	• Date and time support using Network Time Protocol (NTP)
	• Uniform Resource Identifier (URI) dialing
	• Dynamic Host Configuration Protocol (DHCP)
	• 802.1X network authentication
	• 802.1Q Virtual LAN
	• 802.1p [QoS and Class of Service (CoS)]
	• Cisco Media Assure and ClearPath, including packet loss-based downspeeding

Call control	• Cisco Unified Communications Manager (CUCM)
	  ◦ Native registration CUCM
	  ◦ Requires CUCM Version 10.5.2 or later with device pack Room Kit Plus
	• Cisco Expressway
	  ◦ Native registration with Expressway
	• Cisco Webex
	• Third-party H.323 Gatekeepers and standards-based SIP proxies

IPv6 network support	• Single call stack support for both H.323 and SIP • Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ • Support for both static and automatic IP configuration (stateless address auto configuration)
Security features	• Management using HTTPS and SSH • IP administration password • Password to access administration features on Touch 10 controller • Disable IP services • Network settings protection
Certificate management	• 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
Other interfaces	• USB 2.0 port, uUSB, factory reset pinhole
Network interfaces Codec Plus	• 1 Ethernet (RJ-45) 10/100/1000 for LAN • 1 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera (camera control) • 1 Ethernet (RJ-45) 10/100/1000 with PoE, for direct pairing with Touch 10 • Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz for LAN • 2x2 multiple input and multiple output (MIMO) Note: Due to compliance regulations, it is required that 802.11d is enabled in the access point for the product to operate properly within 5725 MHz – 5875 MHz. Using a Wifi connection is a flexible option, however an Ethernet connection is always preferred for high performance.
Power supplies (2)	• 100 to 240 VAC, 50/60 Hz, 12V DC input

Specification	Description
	• Average 20 W, peak 70W
	• Quad camera must be used with power supply FSP FSP070-AHAN2 or AcBel ADF019
Operating temperature and humidity	• 0°C to 35°C (32°F to 95°F) ambient temperature
	• 10% to 90% Relative Humidity (RH)
Storage and transport temperature	• –20°C to 60°C (–4°F to 140°F) at RH 10% to 90% (noncondensing)
Locking mechanism	• Kensington security lock
Dimensions	

• Quad Camera:
  ◦ Width: 37.4 in. (95.0 cm)
  ◦ Height: 4.7 in. (12.0 cm)
  ◦ Depth: 4.0 in. (10.3 cm)
  ◦ Weight: 10.6 lb. (4.8 kg)

• Codec Plus:
  ◦ Width: 14.1 in. (35.9 cm)
  ◦ Height: 1.7 in. (4.3 cm)
  ◦ Depth: 5.6 in. (14.3 cm)
  ◦ Weight: 3.9 lb. (1.77 kg)

Specification	Description
Camera overview (Quad Camera)	• (4) 5K CMOS sensors with machine intelligent switching; providing single HD output at 1080p
	• Support up to 60 fps
	• 15.1 MP image sensor
	• 1/1.7 CMOS
	• 5x digital zoom (3 tele-lenses each with 50° horizontal field of view)
	• f/2.0 aperture
	• 83° horizontal field of view; 51.5° vertical field of view
	• Auto-framing (audio + face detect)
	• 5120 x 2880 pixel resolution
	• Auto focus, brightness, and white balance
	• Focus distance 1 m to infinity

Regulatory compliance

- Directive 2014/35/EU (Low-Voltage Directive)
- Directive 2014/30/EU (EMC Directive) – Class A
- Directive 2014/53/EU (Radio Equipment Directive)
- Directive 2011/65/EU (RoHS)
- Directive 2002/96/EC (WEEE)
- NRTL approved (Product Safety)
- FCC CFR 47 Part 15B (EMC) – Class A

Please check the Product Approval Status Database at https://www.ciscofax.com/ for approval documents per country.

Ordering information

To place an order, please contact your local Cisco representative and refer to Table 2.

Table 2.   Ordering information

Product Name	Part Number	Compliance Model Number
Cisco Webex Room Kit Plus – Subscription pricing (MSRP*)) • Cisco Webex Codec Plus • Cisco Webex Quad Camera • Cisco Touch 10 Control Unit • Cisco Webex Service	CS-KITPLUS-MSRP-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CTS-CTRL-DVX-10 A-SPK-SH-RMK (A-SPK-SH)	TTC7-25 TTC8-10 TTC5-09
Cisco Webex Room Kit Plus (GPL**) • Cisco Webex Codec Plus • Cisco Webex Quad Camera • Cisco Touch 10 Control Unit	CS-KITPLUS-K9 CS-CODEC-PLUS+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Webex Room Kit Plus – NO RADIO • Cisco Webex Codec Plus – NO RADIO • Cisco Webex Quad Camera • Cisco Touch 10 Control Unit	CS-KITPLUS-NR-K9 CS-CODEC-PLUS-NR+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Webex Room Kit Plus – NO CRYPTO • Cisco Webex Codec Plus • Cisco Webex Quad Camera • Cisco Touch 10 Control Unit	CS-KITPLUS-K7 CS-CODEC-PL-NR-K7+ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC8-10 TTC5-09
Cisco Webex Room Kit Plus – TAA compliant • Cisco Webex Codec Plus – TAA, NO RADIO, or • Cisco Webex Codec Plus – TAA • Cisco Webex Quad Camera • Cisco Touch 10 Control Unit	CS-KITPLUS-K9++ CS-CODEC-PLUS-NR++ CS-CODEC-PLUS++ CS-QUADCAM+ CTS-CTRL-DVX-10	TTC7-25 TTC7-25 TTC8-10 TTC5-09

Product Name	Part Number	Compliance Model Number
Options		
Cisco Table Microphone with 3.5mm plug	CS-MIC-TABLE-J=	
Extension cable for Table Microphone 20	CAB-MIC-EXT-J=	
Cisco Ceiling Microphone	CTS-MIC-CLNG-G2	
Shielded cable for Ceiling Mic (non-plenum rated)	CAB-ETHRSHLD-10M	
Wall Mount Kit for Codec Medium	CS-KITPLUS-WMK	
8 m HDMI 2.0 certified cable	CAB-PRES-2HDMI-GR	
HDMI 2.0 cable 1.5 m/5 ft, gray	CAB-2HDMI-1.5M-GR	
HDMI 2.0 cable 3 m/10 ft, gray	CAB-2HDMI-3M-GR	
Ethernet cable 1.5 m/5 ft, gray	CAB-ETH-1.5M-GR	
Ethernet cable 3 m/10 ft, gray	CAB-ETH-3M-GR	
Ethernet cable 5 m/16.4 ft, gray	CAB-ETH-5M-GR	
Software options – ordered separately		
Remote Monitoring	L-ROOM-RM (L-TP-RM)	
MultiSite (embedded multipoint)	L-KITPLUS-MS (L-ROOM-PAK)	
Spares		
Cisco Webex Codec Plus	CS-CODEC-PLUS=	
Cisco Webex Codec Plus – no radio, no crypto	CS-CODEC-PL-NR-K7=	
Cisco Webex Codec Plus – no radio	CS-CODEC-PLUS-NR=	
Cisco Webex Quad Camera	CS-QUADCAM=	
Power supply 12VDC 70W	PSU-12VDC-70W-GR=	

[*] MSRP = Manufacturer's Suggested Retail Price

[**] GPL = Global Price List

Warranty information

Cisco Webex Room Kit Plus has a 90-day limited liability warranty.

Cisco environmental sustainability

Information about Cisco's environmental sustainability policies and initiatives for our products, solutions, operations, and extended operations or supply chain is provided in the "Environment Sustainability" section of Cisco's Corporate Social Responsibility (CSR) Report.

Reference links to information about key environmental sustainability topics (mentioned in the "Environment Sustainability" section of the CSR Report) are provided in the following table:

Sustainability topic	Reference
Information on product material content laws and regulations	Materials
Information on electronic waste laws and regulations, including products, batteries, and packaging	WEEE compliance

Cisco makes the packaging data available for informational purposes only. It may not reflect the most current legal developments, and Cisco does not represent, warrant, or guarantee that it is complete, accurate, or up to date. This information is subject to change without notice.

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For more information

- Learn more about Cisco Webex Room Kit Plus.
- Download the Cisco Webex Teams app.

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