



TANDBERG Codian MCU 4200 Series

The TANDBERG Codian MCU 4200 Series is the industry's leading standard-definition, multimedia conferencing bridge. It delivers high-quality voice and video with an easy-to-use, versatile management interface. Compatible with all major vendors' endpoints, each model maintains its capacity and performance in every configuration, delivering an excellent experience for each participant, every time.



DESIGN FEATURES

- Standards-based and compatible with all major vendors' endpoints
- Easy-to-use, versatile, management interface
- Up to 40 video plus 40 voice ports
- Over 50 custom layouts
- Comprehensive wideband audio support
- Support for both SIP and H.323 endpoints
- Compact size: 1U tall and 19" rack mountable

APPLICATION FEATURES

- TANDBERG Codian ConferenceMe™ for multipoint desktop video
- Integrated with TANDBERG Management Suite (TMS)
- Offers full interoperability with ISDN networks using standalone TANDBERG Codian or third party ISDN gateways
- Compatible with Microsoft Office Communication Server
- Fully integrated, with built-in gatekeeper and streaming server
- PacketSafe™ technology minimizes effects of network packet loss
- Multiway™

PERFORMANCE FEATURES

- TANDBERG Codian Universal Port™ technology ensures each participant receives an excellent experience
- Constant high capacity
- Bandwidth per site up to 4 Mbps
- Video resolutions: 720p at up to 15fps, 480p at up to 30fps
- Standard Definition Continuous Presence

GET THE MOST FROM YOUR INVESTMENT. WITH **PROFESSIONAL SERVICES**, TANDBERG EXPERTS SUPPORT TANDBERG CODIAN MCU 4200 SERIES DEPLOYMENT AND TRAINING. VISIT WWW.TANDBERG.COM

MODEL	VIDEO PARTICIPANTS	ADDITIONAL VOICE PARTICIPANTS	VIDEO STREAMING UNICAST/MULTICAST
MCU 4203	6	6	24/unlimited
MCU 4205	12	12	24/unlimited
MCU 4210	20	20	40/unlimited
MCU 4215	30	30	60/unlimited
MCU 4220	40	40	80/unlimited

VFO-4203/VFO-4205/VFO-4200	Video Firewall Option — enables second Ethernet connection to additional networks (e.g. Internet)
HRO-4205/HRO-4210/HRO-4215/HRO-4220	High Resolution Option — for resolutions above CIF and up to 720p at 15 fps and 480p at 30 fps
WCO-4203/WCO-4205/WCO-4210/WCO-4215/WCO-4220	Web Conferencing Option — includes TANDBERG Codian ConferenceMe™ for multipoint desktop video; alternatively provides content streaming, annotation and chat capabilities

Using high bandwidth or resolution, H.264 or advanced continuous presence does not reduce the number of sites or conferences supported

*Maximum number of unicast streams is dependent on network topology. When using the WCO feature, the maximum number of unicast streams supported by the 4215 and 4220 is 50

†Allows up to 12 simultaneous ConferenceMe™ connections. On MCU 4203 allows up to 6 simultaneous ConferenceMe™ connections

HIGH PERFORMANCE

720p up to 15 fps H.263 continuous presence; 480p up to 30 fps Comprehensive HD audio

VIDEO STANDARDS

H.261, H.263, H.263+, H.263++, H.264

VIDEO RESOLUTION

From QCIF to 480p at up to 30 fps and 720p (1280 x 720) at up to 15 fps, including interlaced ICIF and ISIF 4:3 and 16:9 aspect ratios

FRAME RATES

Up to 30 frames or 60 fields per second

AUDIO STANDARDS

G.711, G.722, G.722.1, G.723.1, G.728, G.729, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Polycom® Siren14™/G.722.1 Annex C

PROTOCOLS

H.323, SIP, H.235 (AES), SRTP, TLS, H.239 (dual video), VNC™, BFCP, H.243 (chair control), FTP, RTP, RTSP, HTTP, HTTPS, DHCP, SNMP, NTP, NTLM (authentication)

BANDWIDTH

H.263 up to 4 Mbps, H.264 up to 2 Mbps for each site in all conference modes including advanced (symmetric) continuous presence

UNIVERSAL TRANSCODING AND TRANSTRATING

Automatic audio/video transcoding and transrating on all calls Any bandwidth, any resolution, any video or audio codec can be used on any video call within the same conference Each participant has their own personal encode

STREAMING VIDEO

Built-in streaming server View using Windows Media Player™, RealPlayer™ or QuickTime™ Streaming of slides (H.239 and VNC™) Text chat Unicast and multicast UDP, TCP or HTTP Independent choice of bandwidth and codec

LOCALIZATION AND CUSTOMIZATION

Custom IVR/auto attendant audio prompts and graphics Uploadable multi language support

BUILT-IN GATEKEEPER

Resolution of E.164 numbers Registration of conferences, endpoints and gateways Up to 25 devices can register

BUILT-IN WEB SERVER

Complete configuration, control and monitoring of the system and conferences

MCU FEATURES

H.323 dial in, or dial out from Web server Standalone or using gatekeeper Configurable audio and video auto attendant Advanced continuous presence as standard on all ports Automatic selection of best layout Individual layout selection using remote control or Web pages Over 50 custom layouts Widescreen (16:9) support Active speaker selection using remote control or voice activated Floor assignment through Web page or management application Far end camera control tunneling using remote control or Web Text identification of sites On-screen text messaging to individual or all sites Built-in conference scheduling and reservation On-demand and ad hoc conferences Dual video using H.239 Presentation mode: add slides from PC using VNC™ Preview of conference and individual camera on Web pages Web Conferencing Option — those without endpoints can still interact Uploadable bitmaps for audio participants Video association for IP and traditional PBXs Automatic connection to audio conferences Multiway™ — enables TANDBERG video endpoints to initiate ad hoc multiparty calls

TANDBERG CODIAN CONFERENCEME™

Content Sharing Multiple layouts Firewall friendly Independent transcode per participant Up to 12 simultaneous connections Client computer requirements: Refer to the list of verified PCs and Webcams under the support section of the TANDBERG website

SYSTEM MANAGEMENT

XML management API Management via built-in Web server RS-232 for local control and diagnostics Syslog for diagnostics Configurable event logs and full H.323 and SIP decoding Configuration backup to network Secure upgrades through Ethernet or CompactFlash Call Detail Records SNMP

NETWORK RESILIENCE

Codian Packet Safe™ technology provides intelligent downsampling, packet pacing and packet loss concealment to ensure optimum video and audio quality Dynamic jitter buffering Alternate gatekeepers

AUDIO FEATURES

Wideband audio mixing Built-in and uploadable auto attendant voice prompts Automatic gain control, adjustable gain, power indication, individual audio mute using Web pages

QUALITY OF SERVICE

Configurable DSCP or TOS/IP precedence

SECURITY FEATURES

Seven levels of access rights and privileges for users Strong password policy Pin-protected conferences Conference locking Secure non-PC hardware and operating system AES encryption, 128 bit key, H.235 SIP encryption TLS certificate verification VFO — second Ethernet port Audit log

INTERFACES

RJ45 Ethernet, 10/100/1000 Mbps full/half duplex, manual or auto sensing RJ45 serial port CompactFlash socket 39 status LEDs

ENVIRONMENTAL DATA

Operating temperature 0°C to 35°C ambient Relative humidity below 95% (non-condensing)

PHYSICAL DIMENSIONS

Height 1.73", 44 mm (1U) Width 17.2", 437 mm Depth 12.3", 312 mm Weight 9 lbs, 4kg 19" rack mountable (kit supplied) or standalone Power 100–240 VAC, 50/60Hz/110W max power consumption

APPROVALS AND COMPLIANCE

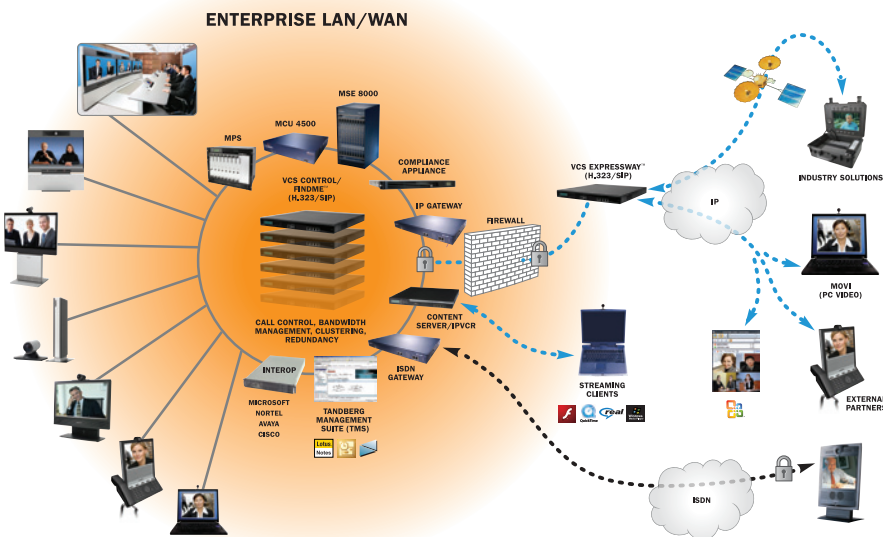
European safety: EN 60950-1:2001 USA safety: UL 60950-1 First Edition Canada safety: CSA 60950-1-03 CB Scheme certificate, CE Marked EMC: EN55022 class A, EN61000-3-2, EN61000-3-3, EN55024; EN61000-4-2, -3, -4, -5, -6, -11, FCC Part 15 class A, VCCI class A, AS/NZS 3548 (C-Tick), CCC Approved: GB4943-2001, GB9254-1998, YD/T993-1998 NAL Certificate (China) RoHS compliant

All specifications subject to change without notice, system specifics may vary.

All images in these materials are for representational purposes only, actual products may differ.

TANDBERG and Codian are registered trademarks or trademarks of TANDBERG in the U.S. and other countries.

All other trademarks are property of their respective owners.



TANDBERG

Codian MCU 4200 Series

TANDBERG WORLD HEADQUARTERS
Philip Pedersen vei 20
1306 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 126 126
tandberg@tandberg.com

1212 Avenue of the Americas,
24th Floor
New York, NY USA 10036
Tel: +1 212 692 6500
Fax: +1 212 692 6501
Video: +1 212 692 6535
tandberg@tandberg.com

December 2009