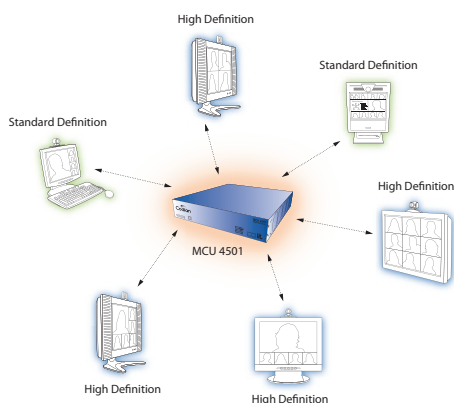




TANDBERG Codian MCU 4501

The TANDBERG Codian MCU 4501 is the industry's leading entry-sized, full high-definition conferencing bridge. It offers organizations a low-risk, cost-effective solution for HD multipoint video conferencing. For those organizations with an existing SD video environment, it provides a seamless transition path to HD with an option to upgrade the capacity when required. **Compatible with all major vendors' SD and HD endpoints, it delivers the best experience for each participant every time.**



GET THE MOST FROM YOUR INVESTMENT. WITH **PROFESSIONAL SERVICES**, TANDBERG EXPERTS SUPPORT TANDBERG CODIAN MCU 4501 DEPLOYMENT AND TRAINING. VISIT WWW.TANDBERG.COM

DESIGN FEATURES

- Standards-based and compatible with all major vendors' endpoints
- Selectable between 6 HD or 12 SD video ports
- Upgradeable to 12 HD or 24 SD video ports
- Easy-to-use, versatile, management interface
- Over 50 custom layouts
- Comprehensive wideband audio support
- Support for both SIP and H.323 endpoints
- PacketSafe™ technology minimizes effects of network packet loss
- Compact size: 2U tall and 19" rack mountable

APPLICATION FEATURES

- TANDBERG Codian ConferenceMe™ for multipoint desktop video
- Upscales SD resolution using TANDBERG Codian ClearVision™
- Integrated with TANDBERG Management Suite (TMS)
- Offers full interoperability with ISDN networks using stand-alone TANDBERG Codian or third party ISDN Gateways
- Compatible with Microsoft Office Communication Server
- Fully integrated, with built-in gatekeeper and streaming server
- Multiway™

PERFORMANCE FEATURES

- Continuous Presence on every port
- TANDBERG Codian Universal Port™ technology ensures each participant receives the best possible experience
- Predictable port capacity
- Bandwidth per site up to 4 Mbps
- Video resolutions up to 1080p 30fps
- SD support at up to w448p 30fps

MODEL	VIDEO PARTICIPANTS	ADDITIONAL VOICE PARTICIPANTS	VIDEO STREAMING UNICAST/MULTICAST
MCU 4501	6 720p ports 3 x 1080p ports 12 448p ports	6 6 12	6/unlimited
MCU 4501 + MCU 4501-PL6	12 720p ports 6 x 1080p ports 24 448p ports	12 12 24	12/unlimited
MCU 4501 + MCU 4501-PL6 + MHD-4501	12 x 1080p ports 24 x 448p ports	12 24	12/unlimited
VFO-4500			Video Firewall Option — enables MCU connection to additional networks (e.g. Internet)

*Maximum number of unicast streams is dependent on network topology.

HIGH-DEFINITION PERFORMANCE

Up to 1080p 30 fps H.264 4 Mbps continuous presence
Comprehensive HD audio
Dual video H.239

VIDEO STANDARDS

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

VIDEO RESOLUTION

From QCIF up to 1080p (1920 x 1080) including interlaced
iCIF and iSIF
4:3 and 16:9 aspect ratios

FRAME RATES

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

Up to 5 Mbps with both H.263 and H.264, for each site
in all conference modes including advanced continuous
presence

UNIVERSAL TRANSCODING AND TRANSRATING

Combine HD and SD within the same conference
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
Unicode conference and site names

QUALITY OF SERVICE

Configurable DSCP or TOS/IP precedence

MCU FEATURES

Dial in or dial out via 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 voice 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 CONFERENCE™

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

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

BUILT-IN WEB SERVER

Complete configuration, control and monitoring of the
system and conferences

BUILT-IN GATEKEEPER

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

SYSTEM MANAGEMENT

XML management API
Management via embedded 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
downspeeding, packet pacing and packet loss concealment
to ensure optimum video and audio quality
Dynamic jitter buffering
Alternate gatekeepers

SECURITY FEATURES

Seven levels of access rights and privileges for users
Password-protected conferences
Secure non-PC hardware and operating system
AES encryption, 128 bit key, H.235
SIP encryption
TLS certificate verification
Video Firewall Option using second Ethernet port

INTERFACES

2 x 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 3.43"; 87 mm (2U)
Width 17.4"; 442 mm
Depth 19.25"; 489 mm
Weight 22 lbs, 15 kg
19" rack mountable (kit supplied) or standalone
Power 100–240 VAC, 50/60Hz
600W maximum power consumption

APPROVALS AND COMPLIANCE

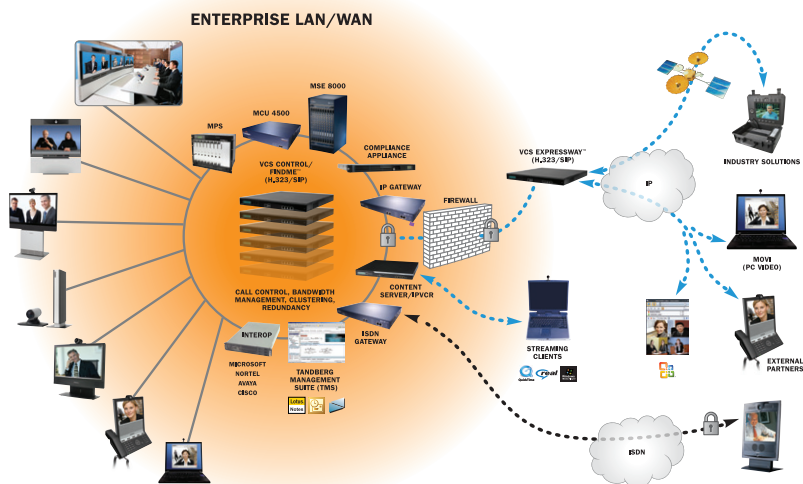
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USA safety: UL 60950-1 First Edition
Canada safety: CSA 60950-1-03
CB Scheme certificate, CE Marked
EMC:
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EN61000-3-2, EN61000-3-3,
EN55024: EN61000-4-2,-3,-4,-5,-6,-11,
FCC Part 15 class A,
VCCI 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,
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