



TANDBERG Codian MSE 8420 Media blade

The TANDBERG Codian MSE 8420 Media blade is the industry's leading chassis-based, 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, it maintains its capacity and performance in every configuration, delivering an excellent experience for each participant, every time.



MSE 8000
Chassis

DESIGN FEATURES

- Standards-based and compatible with all major vendors' endpoints
- Easy-to-use, versatile, management interface
- 40 video plus 40 voice ports on a single blade
- Enables up to 360 video plus 360 voice ports in a single chassis
- Over 50 custom layouts
- Comprehensive wideband audio support
- Support for both SIP and H.323 endpoints
- Pay as you grow — buy the capacity you need now and upgrade in the future with a software license

APPLICATION FEATURES

- Integrated with TANDBERG Management Suite (TMS)
- Offers full interoperability with ISDN networks using 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

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
- Latency as low as 60ms

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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 TRANSRATING

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 — those without endpoints can still interact
Uploadable bitmaps for audio participants
Video association for IP and traditional PBXs

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
downspeeding, 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
Password-protected conferences
Secure non-PC hardware and operating system
AES encryption, 128 bit key, H.235
SIP encryption
TLS certificate verification
Video Firewall 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

SOFTWARE LICENSE

Media port licenses required in MSE 8000 chassis to enable
SD video ports with additional audio ports

ENVIRONMENTAL DATA

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

CHASSIS PHYSICAL DIMENSIONS

Physical Dimensions
Height 33.25", 842 mm (19U)
Width 17.2", 437 mm
Depth 20.5", 520 mm
19" rack mountable (kit supplied)
Power -48 VDC, 100-240 VAC 50/60 Hz

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

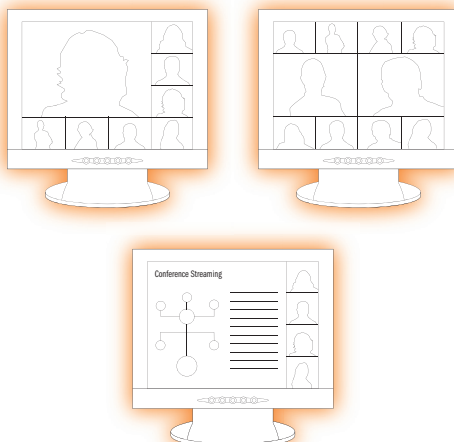


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