



TANDBERG
Codian
MSE 8510
Media2 blade

The TANDBERG Codian MSE 8510 Media2 blade is the industry's leading chassis-based, high-definition multimedia conferencing bridge. It delivers superior video and voice with an easy-to-use, versatile management interface. Compatible with all major vendors' endpoints, it maintains its capacity and performance in every configuration, delivering the best 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
- 20 video plus 20 voice ports on a single blade
- Enables up to 180 video plus 180 voice ports in a single chassis
- Over 50 custom layouts
- Comprehensive wideband audio support
- Support for both SIP and H.323 endpoints
- PacketSafe™ technology minimizes effects of network packet loss
- Pay as you grow — buy the capacity you need now and upgrade in the future with a software license

APPLICATION FEATURES

- Supports transition from SD to HD using TANDBERG Codian ClearVision™
- 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

PERFORMANCE FEATURES

- High Definition Continuous Presence on every port
- TANDBERG Codian Universal Port™ technology ensures each participant receives the best possible experience
- Constant high capacity
- Bandwidth per site up to 5 Mbps
- Video resolutions up to 720p at 30fps
- Future proofed for 1080p and 60fps
- Latency as low as 60ms

GET THE MOST FROM YOUR INVESTMENT. WITH **PROFESSIONAL SERVICES**, TANDBERG EXPERTS SUPPORT TANDBERG CODIAN MSE 8000 SYSTEM DEPLOYMENT AND TRAINING. VISIT WWW.TANDBERG.COM

HIGH DEFINITION PERFORMANCE

720p 30 fps H.264 5 Mbps continuous presence
Future options will allow 1080p 30 fps and 720p 60fps
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 720p (1280 x 720) 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.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 (symmetric)
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

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 tunnelling 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 voice participants
Video association for IP and traditional PBXs

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
Call Detail Records
SNMP

QUALITY OF SERVICE

Configurable DSCP or TOS/IP precedence

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

INTERFACES

RJ45 Ethernet, 10/100/1000 Mbps full/half duplex, manual
or auto sensing
RJ45 serial port
Status LCD

SOFTWARE LICENSE

Media2 port licenses required in MSE 8000 chassis to enable
HD 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

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/NZ S 3548 (C-Tick),
RoHS compliant

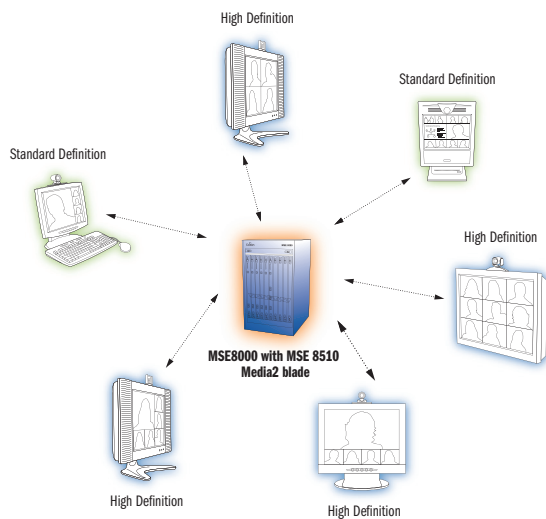


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