

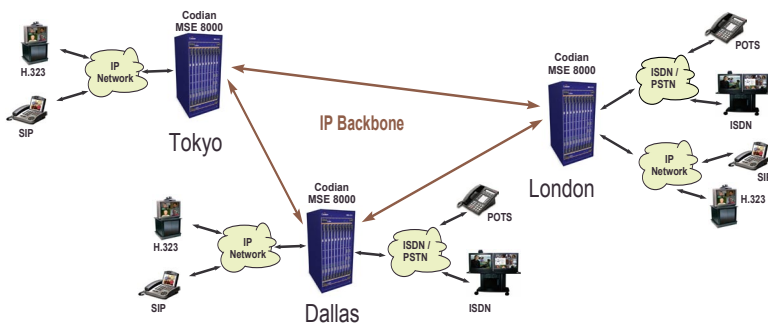
The Codian MSE 8000 is a powerful, fault-tolerant video conferencing solution, designed for large scale video communication. This carrier-class chassis supports up to 10 blades and 1 Gbit/s of audio/video conferencing and delivers over 10 times the throughput of existing solutions. The MSE 8000 is ideal for service providers, large commercial enterprises and government installations.



High Availability

The MSE 8000 is a highly fault-tolerant ETSI/NEBS 3 chassis with redundant power supplies, fans and hot swappable option blades. Intelligent fail-over and easy to use system management makes the MSE 8000 the natural choice for any mission-critical video conferencing.

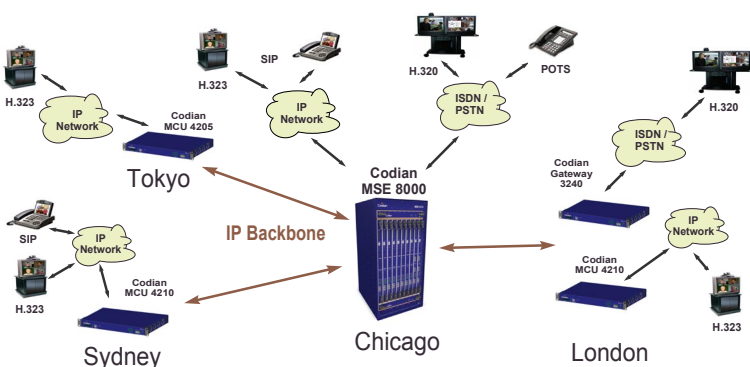
MSE 8000 Service Provider



High Performance Conferencing

The MSE 8000 supports up to 360 ports of multipoint video conferencing (each at up to 4 Mbit/s with no loss of port count), 72 ports of ISDN T1/E1 or 90 ports of H.323 conference recording in a single chassis. Each port can support a different compression algorithm (H.261, H.263 or H.264), a different view (continuous presence layout) for the user and a different data rate. The result is over 1 Gbit/s of video conferencing in a single chassis.

MSE 8000 Enterprise



Scalable, Multi Service, Multi Protocol

Option blades are available for multipoint video and audio, ISDN, conference recording and streaming. Video data rates from 56 kbit/s to 4 Mbit/s are supported with no loss of port count. CIF and 4CIF video resolutions with upgrades to High-Definition are available. Supports combined H.323 and SIP for mixed environments and to facilitate migration. Offers proven support for all leading IP and ISDN endpoints.

Chassis components

Part	Description
MSE 8000 Chassis	10 slot media services engine chassis with high speed backplane
MSE 8010 Fan tray	Hot-swap fan tray (for use in both top and bottom slots) with environmental monitoring
MSE 8020 PSU tray	Power supply tray to take 2 MSU 8021 PSU modules
MSU 8021 PSU module	100-240 VAC hot swappable power supplies to fit MSU 8020 PSU tray

Option Blades

Part	Description
MSE 8050 Supervisor	Supervisor blade, required for system management and configuration
MSE 8420 Media 40	40 ports of video plus 40 ports of audio multipoint conference
MSE 8320 ISDN 8	8 ports E1 or T1 PRI ISDN
MSE 8220 VCR 10	10 ports of H.323 video recording with streaming server

Chassis

10 hot swappable option slots
 Redundant and hot-swap fan trays
 One plus one redundant and hot swappable power supplies
 Dual 48 volt power option
 Active environmental monitoring
 High speed back plane and management bus

Reliability

Fault-tolerant, high availability chassis
 Intelligent fail-over
 Distributed conferences

System Management

Comprehensive system management
 RS-232 for local control and diagnostics
 Telnet and Syslog for diagnostics
 Configurable event logs and full H.323 decoding
 Configuration backup
 Secure upgrades through Ethernet
 SNMP and XML API for third party integration

Security Features

Administrator, User and Guest passwords
 Password protected conferences and streaming
 DTMF passwords for H.323 endpoints
 Secure non PC hardware and operating system
 AES encryption, 128 bit key, H.235
 Video Firewall option

Capacity

More than 1 Gbit/s of conferencing bandwidth
 Up to 360 ports of video conferencing
 Up to 72 ports of T1/E1 gateway
 Up to 90 ports of video conference recording
 No loss in port count due to IP bandwidth, resolution, codec or multipoint conference layout.

Video

H.261, H.263, H.263+, H.263++, H.264
 QCIF, QSIF, CIF, SIF, I SIF, ICIF, 4CIF, 4SIF, VGA, XGA, HD (720p)
 Up to 30 fps in all modes
 56kbit/s to 4Mbit/s
 Transcoding and transrating

Audio

G.711, G.722, G.728, G.729, G.723.1, G.722.1, MP4 AAC
 Audio transcoding

Protocols

H.323 v4, SIP, H.320, H.221, BONDING (ISO 13871), H.239 (dual video), ftp, Telnet, RTP, RTSP, HTTP, DHCP

Multipoint conferencing

H.323 dial in, or dial out from web server
 Stand alone or using Gatekeeper
 Configurable audio and video Auto Attendant
 Advanced Continuous Presence as standard
 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
 Far end camera control tunnelling using remote control or web
 On-screen text messaging and site identification
 Conference scheduling and reservation
 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

Recording

From H.323 end point, MCU or Gateway
 H.323 dial in, or dial out
 Data from H.239 (dual video) capable endpoints
 Record video at multiple bandwidths
 Stream live, on demand, to a PC, H.323 playback

Streaming

Embedded streaming server
 H.261, H.263+, H.263++, H.264 video
 Viewed using RealPlayer™, QuickTime™ and Windows Media Player™
 Streaming of slides (H.239 and VNC™)
 High Definition streaming
 Stream live or recorded content
 Stream at multiple bandwidths, Unicast and Multicast

ISDN

Up to 8 ISDN PRI interfaces per option blade
 Automatic downspeeding on loss of ISDN B channels
 H.320 calls up to 768kbit/s
 Total bandwidth and number of sites supported is limited only by ISDN capacity
 Direct Inward Dialing (DID)
 Interactive Voice Response (IVR) / Video Auto Attendant (AA)
 TCS-4, Default (Operator) extension
 Call routing to MCU / multipoint conferencing bridge
 Digit manipulation / flexible dial plan
 Dial by E.164 address
 Digit manipulation / flexible dial plan



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Not all features are available in the initial product release but will be made available through future software releases

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