



TANDBERG
Codian
MSE 8321
ISDN GW blade

A high-capacity and scalable chassis-based gateway that grows with your business demands. Provides seamless integration between IP and ISDN networks with complete feature transparency, including high definition (HD), enabling organizations using ISDN to enjoy the benefits of HD videoconferencing.



MSE 8000 Chassis

DESIGN FEATURES

- Standards-based and compatible with all major vendors' endpoints
- Pay as you grow — buy the capacity you need now and upgrade in the future with a software license
- Easily configurable unit
- Comprehensive remote Web management

APPLICATION FEATURES

- Provides seamless integration between IP and ISDN devices
- Fully integrated, with built-in gatekeeper
- Powerful dial plans ensure that your calls get routed efficiently
- H.239 for presentation sharing capabilities
- AES encryption

PERFORMANCE FEATURES

- Video resolutions up to High Definition 720p at 30fps
- Supports up to 8 PRI ISDN ports in a single blade
- Enables up to 72 PRI ISDN ports in a single Chassis
- Up to 240 voice calls at 64 Kbps per blade
- Up to 120 video calls at 128 Kbps per blade
- Bandwidth per call from 64Kbps to 2Mbps

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ENDPOINTS SUPPORTED

H.323 IP voice and video endpoints
H.320 ISDN voice and video endpoints
PSTN audio only calls (telephones) through ISDN

VIDEO STANDARDS

H.261, H.263, H.264

VIDEO RESOLUTION

QCIF, QSIF, CIF, SIF, iCIF, iSIF, 288p, 384p, 400p, 448p, VGA, 4CIF, 4SIF, 480p, SVGA, 576p, XGA, 720p

FRAME RATES

Up to 30 frames per second and 60 fields per second

AUDIO STANDARDS

G.711, G.722, G.728, G.722.1 Annex C

PROTOCOLS

H.323 v4, H.320, H.235 (AES), H.239 (dual video),
FTP, RTP, HTTP, DHCP, SNMP, NTP

ISDN BONDING

BONDING (ISO 13871)
H.221 aggregation
Automatic downspeeding on loss of ISDN B channels

BANDWIDTH

H.320/H.323 calls supported up to 2 Mbps
Total bandwidth and number of sites supported is limited only
by ISDN capacity

PRESENTATION/DATA COLLABORATION

Data from H.239 (dual video) capable endpoints

CALL ROUTING FROM ISDN (H.320/PSTN)

IVR/auto attendant
Direct Inward Dialing (DID)
Default (Operator) extension
Call routing to MCU/multipoint conference bridge
Digit manipulation
Flexible dial plan

CALL ROUTING FROM IP (H.323)

IVR/auto attendant
Dial by E.164 address
Digit manipulation
Flexible dial plan
Dial from MCU with and without a gatekeeper

EMBEDDED WEB SERVER

Complete configuration, control and monitoring of the system

SYSTEM MANAGEMENT

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

QUALITY OF SERVICE

Configurable DSCP or TOS/IP precedence
H.323 flow control
Dynamic jitter buffers
ECAN for PSTN audio only telephone calls

SECURITY FEATURES

Administrator, User and Guest passwords
Secure non-PC hardware and operating system

INTERFACES

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

SOFTWARE LICENSE

ISDN PRI port licenses required in MSE 8000 chassis
to enable ISDN PRI ports

ENVIRONMENTAL DATA

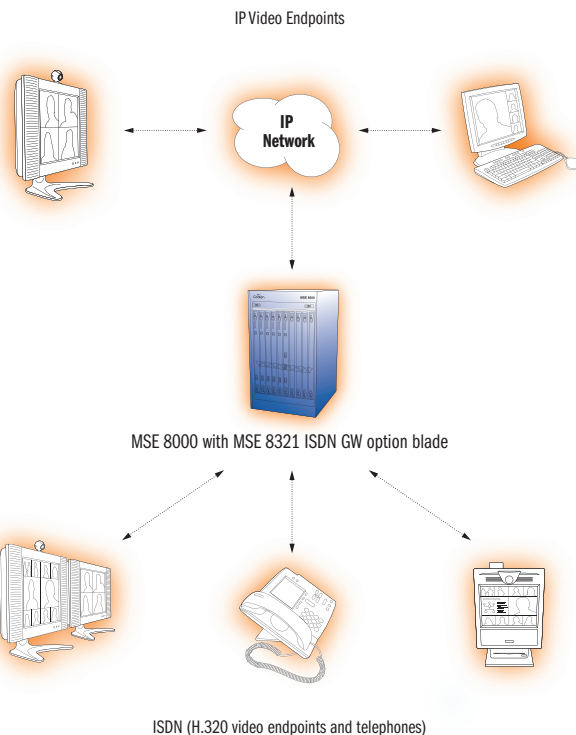
Operating temperature 0°C to 35°C ambient
Relative humidity below 95% (non-condensing)

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
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
Telecoms:
USA TIA-968-A: October 2002, 47 CFR Part 68:
October 2004,
Canada: IC CS-03, Issue 9, Part VI,
Europe: ETS 300 046-3,
Japan: Ordinance of MPT No 31, 1984,
China: NAL Certificate
RoHS compliant



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TANDBERG

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