

Media Processing System

The TANDBERG Media Processing System (MPS) is a reliable, scalable multipoint control unit. Low life cycle costs and feature-rich support for video endpoints make MPS ideal for enterprise, public sector and education organizations as well as for service providers.

DESIGN FEATURES

- 19" rack mountable chassis with display and CompactPCI backplane
- Modular and expandable with multiple media processing boards and network interface boards
- Simple to configure,
 Plug-and-Play technology

APPLICATION FEATURES

- Join up to 48 video and 48 audio sites in one or more conferences
- Supports H.264 with Continuous Presence and Voice Switching
- Support for XGA, VGA and SVGA PC presentations
- Support for automatic layout and resolution switching
- DuoVideo/H.239 support for simultaneous display of presenter and presentation material
- Port count independent of features used
- Support for standards based CD-quality audio

PERFORMANCE FEATURES

- Choice of networks: IP, ISDN and V.35
- Bandwidth: from 56 kbps - 2 Mbps
- Supports network and video equipment from multiple vendors
- Highest level of standards-based embedded encryption
- Downspeeding provides protection from network interruptions and maintains the call in progress



SYSTEM CAPACITY

Number of video endpoints: 48 Number of audio only endpoints: 48

ENDPOINTS SUPPORTED

ISDN (H.320) video endpoints* V.35 (H.320) video endpoints* IP (H.323) video endpoints Analog / IP telephony

BANDWIDTH

H.320 up to 2 Mbps* H.323 up to 2 Mbps

VIDEO STANDARDS

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

AUDIO STANDARDS

G.711, G.722, G.722.1, G.728, MPEG 4 AAC-LD

LIVE VIDEO RESOLUTIONS NATIVE PAL:

QCIF (176 x 144 pixels) CIF (352 x 288 pixels)

4CIF (704 x 576 pixels)

NATIVE NTSC:

SIF (352 x 240 pixels) 4SIF (704 x 480 pixels

NATIVE PC RESOLUTIONS:

VGA (640 x 480 pixels) SVGA (800 x 600 pixels) XGA (1024 x 768 pixels)

TRANSCODING

Bandwidths from 56 kbps - 2 Mbps in the same conference

NETWORK INTERFACES

2 x LAN / Ethernet (RJ-45) 10/100 Mbit on the System Controller board

1 x LAN / Ethernet (RJ-45) 10/100 Mbit on each Media Processing board

Endpoints on two different IP networks in the same conference 8 x E1 / T1 G.703 (RJ-45) for ISDN PRI on each PRI

32 V.35 and RS-366 ports on each V.35 network board*

ETHERNET / INTERNET / INTRANET CONNECTIVITY
TCP/IP, DHCP, SSL, ARP, FTP, Telnet, HTTP,
HTTPS, XML, SOAP Embedded WEB server 10/100 Mbps full / half duplex (manual or auto detect selection)

OTHER SUPPORTED STANDARDS

H.221, H.231, H.241, H.242, H.243, H.245, H.320, H.239 H.323, BONDING (ISO 13871)

MCU FEATURES

Dial in / dial out capabilities
ISDN & IP Downspeeding
Automatic Continuous Presence switching
(CP4 / CP9 / CP16 / CP5+1 / C7+1 / auto) Voice Switched

Best Impression – Automatic change of video image layout and resolution dependent on the number of participants Supports two-level distribution of MCUs, with automatic Master/Slave negotiation on IP and ISDN H.243 Terminal Names Request Floor from endpoints

Assign Floor to endpoint Mute Audio from endpoints

Mute Video from endpoints

9 sites at 2 Mbps, 24 sites at 768 kbps, 48 sites at 384 kbps (+telephone calls)

E1 PRI*

9 sites at 2 Mbps, 24 sites at 768 kbps, 48 sites at 384 kbps (+telephone calls)

T1 PRI*

12 sites at 1.5 Mbps, 24 sites at 768 kbps, 48 sites at 384 kbps (+telephone calls)

V.35*

9 sites at 2 Mbps, 24 sites at 768 kbps, 48 sites at 384 kbps

EMBEDDED ENCRYPTION

Standards based on ISDN, IP and mixed ISDN / IP: H.233. H.234, H.235 v2&v3, DES 56 bit key, AES 128 bit key NIST-validated AES NIST-validated DES Automatic key generation and exchange Mix of DES / AES possible in the same conference

AUDIO FEATURES

Automatic Gain Control Custom "Welcome" Sound (WAV) Custom "Password" Sound (WAV) Entry / Exit tones Mobile telephone noise suppression CD-quality audio using MPEG 4 AAC-LD

VIDEO FEATURES

Custom "Welcome" pictures (JPEG)
Custom "Password" pictures (JPEG)
Snapshot of ongoing conference (JPEG)
Snapshot of ongoing Duovideo/H.239 presentation (JPEG) Separate welcome page for encrypted conferences

FRAME RATES

Up to 30 fps in Continuous Presence, Voice Switched and presentation mode

SECURITY FEATURES

IP Administration passwords DTMF password Management via HTTPS IP password Password protected conference (H.243) Services may be disabled: FTP, Telnet, HTTP, HTTPS, H.323, SNMP

H.323 NETWORK FEATURES

DiffServ IP Precedence TOS

Intelligent Packet Loss Recovery (IPLR)

LIVE PRESENTATIONS

Broadcast of a site's presentation (all supported video resolutions) using DuoVideo or H.239 Supported in Continuous Presence and Voice Switched Support for mix of H.239 and DuoVideo in same conference on any network

SYSTEM MANAGEMENT

Total management via embedded web server using HTTPS, XML, SOAP, Telnet and FTP 1 x RS-232 for local control and diagnostics Conference scheduling via the TANDBERG Scheduler, Microsoft® Outlook® or IBM Lotus Notes® Support for the TANDBERG Management Suite

EMBEDDED WEB SERVER

Total conference and call control System diagnostics and configuration Snapshot of ongoing conference

ENVIRONMENTAL DATA

Operating temperature: 0°C to 35°C (32°F to 95°F) ambient temperature Relative Humidity (RH): 10% to 90% Storage and transport temperature:

-20°C to 60°C (-4°F to 140°F) at RH 10 - 90% (non-condensing)

POWER

100-240 VAC, 50 / 60 Hz 800W max. power consumption

UNIT DIMENSIONS

Height 9U / 399mm / 15.7' Width 444mm / 17.4" Depth 371mm / 14.6" Net weight 20.0 kg 19" rack mountable

* ISDN and V.35 available from Q4 2004

System features vary depending on network selection and software package. All specifications subject to change without notice.

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