



TANDBERG MPS 800

The TANDBERG Media Processing System (MPS) 800 is a feature rich, scalable multipoint control unit, gateway, or hybrid solution capable of supporting HD (720p). The MPS 800 is ideal for large enterprises, government agencies and service providers. Software upgrades provide investment protection, improving return on investment while increasing features and functionality.



Rear View
Multiple media processing boards
and network interface boards

DESIGN FEATURES

- 19" rack-mountable chassis with display and CompactPCI backplane
- Modular and expandable with dual media processing boards and network interface boards
- Simple to configure, Plug-and-Play technology
- Flexible design as MCU, gateway or hybrid
- Intelligent Native 16:9 view with up to 24 layouts and optional selfview
- Supports HD (720p)

APPLICATION FEATURES

- Join up to 160 video and 48 audio sites in one or more conferences
- Supports H.264 with Continuous Presence and Voice Switching
- Supports simultaneous display of presenter and XGA, VGA, and SVGA PC presentations
- Outbound, Inbound, and Caller ID password protection
- Supports widescreen HD resolution (1280x720p)
- Integrated with Microsoft® Office Communicator
- Supports TANDBERG Expressway™ firewall traversal standard

PERFORMANCE FEATURES

- Wide range of network and protocol support: SIP, 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
- Downsampling provides protection from network interruptions and maintains the call in progress

GET THE MOST FROM YOUR INVESTMENT. WITH PROFESSIONAL SERVICES, TANDBERG EXPERTS SUPPORT MPS DEPLOYMENT AND TRAINING. VISIT WWW.TANDBERG.NET

MAXIMUM SYSTEM CAPACITY

MCU video ports: up to 160
MCU audio ports: up to 48
Gateway sessions: up to 80
Serial Interface ports: up to 128
ISDN-PRI ports: up to 32

MCU CONFERENCE SCHEDULING

Advanced scheduling (Multiple MCUs) with TMS
Scheduling using the TANDBERG Scheduler, Microsoft Outlook® or IBM Lotus Notes®
On-demand conferencing (true ad-hoc)
Personal conferencing
Conference initiation using Microsoft Office Communicator (SIP-CX)

MCU CONFERENCE MANAGEMENT

Advanced conference monitoring with TMS
Conference Control Center
Centralized management and control via embedded web server
3rd Party API for external control (XML on HTTPS)
Live audio and video monitoring & diagnostics
Dual Snapshot of ongoing conference (JPEG)
Move participants between conferences
Waiting room for ad-hoc conferencing
Conference bandwidth threshold
Single or Multiple dial-in numbers per conference
Caller ID conference routing
Mute audio and video to/from endpoints
Custom "Welcome" pages (JPEG)
Customizable conference messages
Lock participant layouts
Edit conference display text

MCU VIDEO FEATURES

Up to 30 fps in Continuous Presence, Voice Switched and presentation mode
Best Impression — Automatic change of video image layout and resolution
Automatic Continuous Presence switching
Standard CP (CP2, CP3, CP4, CP5+1, CP4+3, CP7+1, CP9, CP8+2, CP12+1, CP12+2, CP16/auto)
Wide Screen CP (wCP2+1, wCP3, wCP3+1, wCP4, wCP4+1, wCP6, wCP8+1, wCP12)
Voice Switched
Self-view optional
Lecture mode
Embedded site naming with Unicode support
Active speaker indication in CP mode
Active speaker indication for telephones

MCU CHAIR CONTROL

Embedded control from TMS Conference Control Center and embedded web server
Endpoint control using H.243 Chair Control on H.320 and H.323
Multi-language H.243 Terminal Names

MCU AUDIO FEATURES

Mute audio to/from endpoints
Automatic gain control
Audio input level indications
Custom "welcome" sound (WAV)
Customizable conference messages (WAV)
Entry/Exit tones
Mobile telephone noise suppression
CD-quality audio using MPEG 4 AAC-LD
Telephone echo suppression

GATEWAY FEATURES (OPTION)

H.323 to/from H.320 (IP to ISDN)
H.323 to/from H.320 (IP to V35)

GATEWAY ISDN CALL ROUTING

Direct Inward Dialing (DID)
Interactive Voice and Video Response (IV²R)
Automatic TCS-4 response on ISDN for automated bridging of IP islands
Any combination of DID, IV²R and TCS-4
Automatic downspeeding to available ISDN or IP rate
Telephone dial-in can be disabled

GATEWAY H.323 CALL ROUTING TO ISDN

Single prefix dialing
Selectable 2x64k (H.221) dial-out
Automatic ISDN restrict and prefixes
Automatic downspeed to available ISDN or IP rate
Load balance control
Call transfer of the IP side

ENDPOINTS SUPPORTED

ISDN (H.320) video endpoints up to 2 Mbps
V.35 (H.320) video endpoints up to 2 Mbps
IP (H.323) video endpoints up to 2 Mbps
IP (SIP) video endpoints up to 2 Mbps
IP (3G) video phone up to 64 kbps
Microsoft Office Communicator (SIP-CX)*
Analog/IP telephony

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 and DES
Automatic key generation and exchange
Mix of DES/AES possible in the same conference

LIVE VIDEO RESOLUTIONS

NATIVE PAL:

QCIF (176 x 144 pixels)
CIF (352 x 288 pixels)
448p (576 x 448 pixels)*
4CIF (704 x 576 pixels)

NATIVE NTSC:

SIF (352 x 240 pixels)
400p (528 x 400 pixels)*
4SIF (704 x 480 pixels)

NATIVE PC RESOLUTIONS:

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

NATIVE WIDESCREEN RESOLUTIONS:

w288p (512 x 288 pixels)*
w448p (768 x 448 pixels)*
w576p (1023 x 576 pixels)*
w720p (1280 x 720p)*

TRANSCODING

Optimal Voice-Switched (oVS) Video: Intelligent On-Demand Transcoding
Network transcoding (IP, ISDN-PRI and V35)
Audio, video and protocol transcoding
Optimized picture layout for 3G phones
Bandwidths from 56 kbps–2 Mbps in the same conference

SECURITY FEATURES

Network authentication (H.235)
Embedded audio/video encryption (H.235)
Secure management & control (HTTPS, SSH)
Participant authentication (password, dial-in number and caller ID)
IP administration passwords
Services may be disabled: Telnet, HTTP, HTTPS, SNMP, SSH

LIVE PRESENTATIONS

Broadcast of presentations (DuoVideo and H.239) on any network

IP NETWORK FEATURES

Expressway NAT and firewall traversal
Intelligent Packet Loss Recovery (IPLR)
Automatic call rate adjustments
URI dialing
QoS (DiffServ, IP Precedence and ToS)
H.245 DTMF tones in H.323
Centralized management via embedded Web server using HTTPS, XML, SOAP, SSH and Telnet
1 x RS-232 for local control and diagnostics
Endpoints on two different IP networks in the same conference
Automatic/manual error control

ISDN NETWORK FEATURES

ISDN-PRI E1/T1
ISDN PRI G.703 and E1/T1, Leased Line
Non-Facilities Associated Signaling (NFAS)
Automatic downspeeding
Automatic call rate adjustments
Advanced diagnostic tools
Automatic/manual error control

NETWORK INTERFACES

2 x LAN/Ethernet (RJ-45) 10/100 Mbit on the system controller board
Up to 8 x LAN/Ethernet (RJ-45) 10/100 Mbit for media processing board
Up to 32 x E1/T1 (RJ-45) for ISDN PRIs and/or G.703
Up to 128 x V.35/RS-366 ports

ETHERNET/INTERNET/INTRANET CONNECTIVITY

TCP/IP, SSL, ARP, Telnet, HTTP, HTTPS, XML, SOAP
Embedded web server for total conference and call control
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), Q.931, SIP, H261, H263+, H264, G711, G722, G722.1, G728, MPEG4 AAC-LD

APPROVALS

Directive 73/23/EEC (Low Voltage Directive)
– Standard EN 60950
Directive 89/336/EEC (EMC Directive)
– Standard EN 55022, Class A
– Standard EN 55024
– Standard EN 61000-3-2/-3-3
Directive 1999/5/EC (R&TTE Directive)
– Standard TBR4
Approved according to UL 60950 and CAN/CSA C22.2 No. 60950
Complies with FCC15B Class A

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 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/399 mm/15.7"
Width 444 mm/17.4"
Depth 371 mm/14.6"
Net weight 44 lbs/20.0 kg
19" rack-mountable

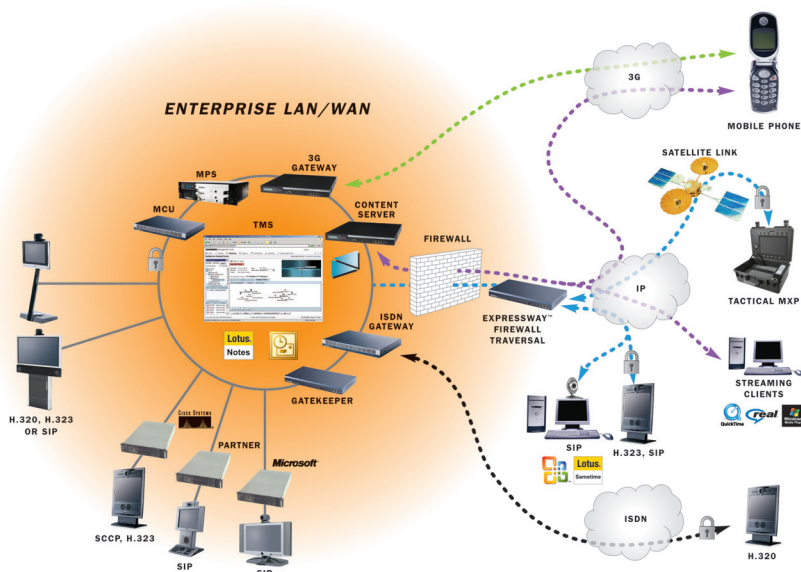
*MCU only

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MPS

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