



TANDBERG Gateway

A gateway that offers unparalleled simplicity. Provides seamless integration between IP and ISDN networks with complete feature transparency and protection from network interruptions.



DESIGN FEATURES

- Fully integrated, easily configurable unit
- Compact size: 1U tall and 19" rack mountable
- 24 LEDs show operational status
- Call transfer and welcome screen with customizable pictures and greeting

APPLICATION FEATURES

- Provides seamless integration between packet-based network services (i.e. IP) and ISDN
- Supports H.264 with IP and ISDN
- Supports network and video equipment from multiple vendors
- Supports a complete set of TANDBERG video systems features, including DuoVideo and H.239, Natural Video, IPLR
- Complete Multipoint Transparency including chair control
- Supports TANDBERG Expressway Firewall Traversal Technology and Standards based Authentication

PERFORMANCE FEATURES

- Easy to use, Plug-and-Play technology
- Bandwidth per call: 56 kbps – 2 Mbps
- Supports network and video equipment from multiple vendors
- Highest level of standards-based embedded encryption
- Downsampling and IPLR provide protection from network interruptions and maintain the call in progress
- Facilitates automatic load balancing in multiple gateway environments

PROTECT YOUR TECHNOLOGY INVESTMENT. EXTEND THE LIFETIME OF YOUR PRODUCTS. TANDBERG's Constant Care Services fulfill customers' support needs from decision through deployment and beyond.

SYSTEM CAPACITY

Number of video gateway calls: 8
Number of audio only gateway calls: 8

ENDPOINTS SUPPORTED

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

BANDWIDTH

H.320 / H.323 call support from 56 kbps to 2 Mbps

VIDEO STANDARDS

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

AUDIO STANDARDS

G.711, G.722, G.722.1, G.728

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

Audio transcoding for speed matching and rate adaption
Audio transcoding for symmetric bandwidth restrictions
in H.320 MCUs

NETWORK INTERFACES

4 x E1/T1 G703 (RJ-45) for ISDN PRI
(in total 4Mb can be used)
1 x LAN / Ethernet (RJ-45) 10/100 Mbit

ETHERNET / INTERNET / INTRANET CONNECTIVITY

TCP/IP, DHCP, SSL, ARP, FTP, Telnet, HTTP, HTTPS
XML, for remote management SNMP for
Enterprise Management
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.323,
BONDING (ISO 13871), Q.931

GATEWAY FEATURES

ISDN CALL ROUTING

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

H.323 CALL ROUTING TO ISDN

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

FIREWALL TRAVERSAL

TANDBERG Expressway Technology™

CAPACITY

2 calls at 2 Mbps, 5 calls at 768 kbps, 8 calls at 384 kbps
(all calls can be H.264)

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
Transparent encryption or independently fixed
for both sides

AUDIO FEATURES

Custom company greetings sound (WAV)
Custom exception/error handling sound (WAV)
Mobile telephone noise suppression

VIDEO FEATURES

Custom company greetings picture (JPEG)
Custom exception/error handling picture (JPEG)

FRAME RATES

Up to 30 fps

SECURITY FEATURES

IP administration passwords
Secure Management via HTTPS and XML/SOAP
IP password
Services may be disabled: FTP, Telnet, SNMP,
HTTP, HTTPS
H.235 authentication for Gatekeeper registration

IP NETWORK FEATURES

DiffServ
IP Precedence
TOS
RSVP
IPLR
H.245 DTMF tones in H.323

PRESENTATIONS

Supports DuoVideo and H.239 on H.320 and H.323
Supports translation between DuoVideo and H.239

SYSTEM MANAGEMENT

Total management via embedded web server using HTTPS,
SNMP, Telnet, FTP and XML/SOAP
1 x RS-232 for local software upgrades, local control
and diagnostics
Supported in TANDBERG Management Suite

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

Power 100-240 VAC, 50 / 60 Hz
90W max. power consumption

PHYSICAL DIMENSIONS

Height 1.7" / 4.4 cm
Width 17.4" / 44.2 cm
Depth 12.5" / 31.8 cm
Net weight 11.3 lbs / 5.15 kg
19" rack mountable

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

*TANDBERG is a registered trademark or trademark
of TANDBERG in the U.S. and other countries.*

*Microsoft, Outlook and Windows are either registered
trademarks or trademarks of Microsoft Corporation in
the United States and/or other countries.*

*Lotus and Domino are trademarks or registered trademarks
of Lotus Development Corporation.*

*IBM is a trademark of International Business Machines
Corporation in the United States, other countries, or both.*

All other trademarks are property of their respective owners.

*All photographs and images contained in these materials are
for general, representational purposes only. Actual products
may differ based upon component availability.*

*Service availability may vary from region to region. Please
contact your TANDBERG reseller for more information.*

TANDBERG

Gateway

TANDBERG WORLD HEADQUARTERS

Philip Pedersens vei 22
1366 Lysaker, Norway
Tel: +47 67 125 125
Fax: +47 67 125 234
Video: +47 67 117 777
E-mail: tandberg@tandberg.net

200 Park Avenue, Suite 2005
New York, NY U.S.A. 10166
Tel: +1 212 692 6500
Tel: +1 800 538 2884 (toll free in the U.S.)
Fax: +1 212 692 6501
Video: +1 212 692 6535
E-mail: tandberg@tandbergusa.com

July 2005