



Automated Attendant



Live Video Operators

TANDBERG Codian IP GW 3500 Series

The TANDBERG Codian IP GW 3500 Series is an innovative gateway solution to let customers and partners easily call you over the Internet. Compatible with all major vendors' endpoints and capable of high definition, it offers powerful dial plans, an auto attendant and voice/video switchboard operators to route calls to the correct destination.



DESIGN FEATURES

- IVR/Auto Attendant, supports up to 32 menus and sub menus
- Auto attendant menus support automated video greeting playback (requires IP VCR)
- Live operator switchboard support
- Compatible with all major vendors' endpoints
- Easy-to-use, versatile, management interface
- Comprehensive wideband audio support
- Support for both SIP and H.323 endpoints
- Compact size: 1U tall and 19" rack mountable

APPLICATION FEATURES

- Flexible dial plans
- Fully interoperable with TANDBERG Management Suite (TMS)
- Operator hunt group
- Fully integrated, with built-in gatekeeper
- PacketSafe™ technology minimizes effects of network packet loss
- Application level gateway with no packet forwarding
- User level access privileges

PERFORMANCE FEATURES

- Transcoding and transcoding on calls up to 4CIF
- Video resolutions: 720p up to 30fps (non-transcoded)
- Bandwidth per site: H.263 up to 4Mbps, H.264 up to 2Mbps
- Up to 40 simultaneous calls

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MODEL	TOTAL CALLS	TRANSCODED CALLS
IP GW 3510	10	5
IP GW 3520	20	10
IP GW 3540	40	20

Large enterprises can increase their available capacity by stacking multiple IPGW together

For example, the IP GW 3520 can support up to 20 calls in total, of which 10 can be transcoded calls. Using high bandwidth or resolution or H.264 does not reduce the number of video calls supported.

IVR/AUTO ATTENDANT

Individually configurable for each port
Configurable menu of destinations
Navigate with FECC or DTMF
Option to dial IP address by DTMF
Custom audio prompts
Uploadable multi-language support
Supports up to 32 Sub Menus
Supports recorded video messages on auto attendant menu (requires IP VCR)

OPERATOR SUPPORT

Up to 18 Live Operators
Operator hunt group support
Hunting by priority, round-robin and try-all

CALL ROUTING

Flexible dial plans
Direct dial by E.164 address
Redirect failed calls to operator and/or auto attendant
Register with up to two H.323 gatekeepers
Register with up to five SIP registrars

ENDPOINTS SUPPORTED

H.323 voice and video endpoints
SIP voice and video endpoints (transcoded)

VIDEO STANDARDS

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

VIDEO RESOLUTION

From QCIF up to 720p (1280 x 720) including interlaced iCIF and iSIF
4:3 and 16:9 aspect ratios

FRAME RATES

Up to 30 frames or 60 fields per second

AUDIO STANDARDS

G.711, G.722, G.723.1, G.728, G.729, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Polycom® Siren14™/G.722.1 Annex C

PROTOCOLS

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

BANDWIDTH

H.263 up to 4 Mbps, H.264 up to 2 Mbps

UNIVERSAL TRANSCODING AND TRANSRATING

Automatic audio/video transcoding and transrating possible on all calls up to 4CIF

Any bandwidth, any resolution, any video or audio codec can be independently used by each caller
Each caller has their own personal encode
Extremely low latency: less than 80 ms

SCALABILITY

Multiple IP Gateways can be deployed in large enterprise situations

BUILT-IN GATEKEEPER

Up to 25 devices can register
Register service prefixes, H.323 IDs and E.164 aliases
Round robin calls over common service prefixes for load balancing

FIREWALL TRAVERSAL

H.460 18 and 19 compliant

DTMF TRANSLATION

DTMF to IP address
Out-of-band to in-band DTMF

CALL FEATURES

H.323 or SIP dial in
Standalone call routing
Preconfigured H.323 and SIP endpoints
Options for H.323 gatekeeper & SIP registrar
Widescreen (16:9) support
Far end camera control tunneling using remote control

WEB USER INTERFACE

Complete configuration, control and monitoring of the system and calls

SYSTEM MANAGEMENT

TANDBERG Management Suite (TMS) Support
Management via embedded Web server
RS-232 for local control and diagnostics
Syslog for diagnostics
Configurable event logs and full H.323 and SIP decoding
Configuration backup to network
Secure upgrades through Ethernet or CompactFlash
SNMP

QUALITY OF SERVICE

Configurable DSCP or TOS/IP precedence

NETWORK RESILIENCE

Packet Safe™ technology provides intelligent downspeeding, packet pacing and packet loss concealment to ensure optimum video and audio quality
Dynamic jitter buffering

SECURITY FEATURES

Three levels of access rights and privileges for users
Separate dial plans for each network port
Secure non-PC hardware and operating system
Application level gateway with no IP packet forwarding

INTERFACES

2 x RJ45 Ethernet, 10/100/1000 Mbps full/half duplex, manual or auto sensing
RJ45 serial port
CompactFlash socket
39 status LEDs

ENVIRONMENTAL DATA

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

PHYSICAL DIMENSIONS

Height 1.73", 44 mm (1U)
Width 17.2", 437 mm
Depth 12.3", 312 mm
Weight 9 lbs, 4kg
19" rack mountable (kit supplied) or standalone
Power 100-240 VAC, 50/60Hz
110W max power consumption

APPROVALS AND COMPLIANCE

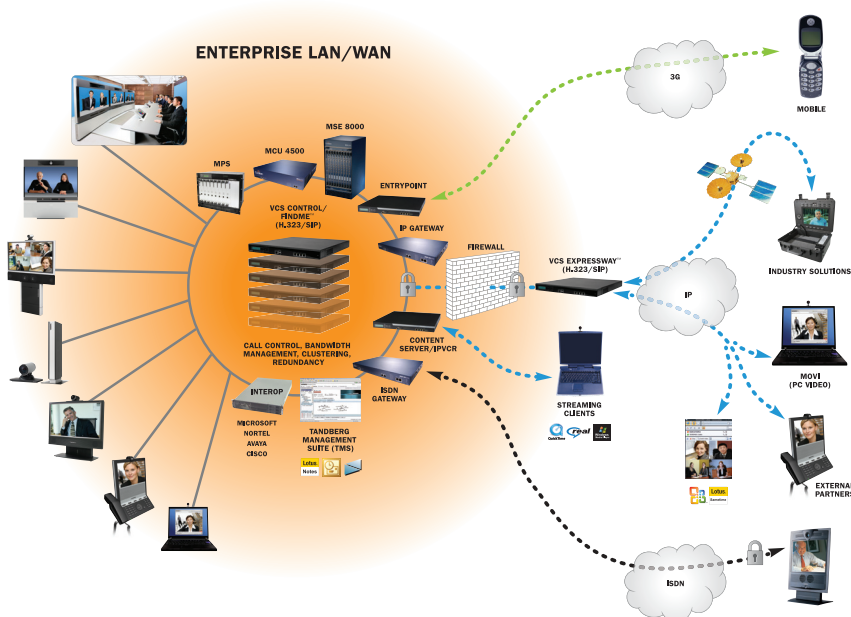
European safety: EN 60950-1:2001
USA safety: UL 60950-1 first Edition
Canada safety: CSA 60950-1-03
CB Scheme certificate, CE Marked
EMC: EN55022 class A, EN61000-3-2, EN61000-3-3, EN55024: EN61000-4-2, -3, -4, -5, -6, -11, FCC Part 15 class A, VCCI class A, AS/NZS 3548 (C-Tick), CCC Approved: GB4943-2001, GB9254-1998, YD/T993-1998
NAL Certificate (China)
RoHS compliant

All specifications subject to change without notice, system specifics may vary.

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