

# Codian IP GW 3500 Series

## Voice and Video Internet Portal



### Providing universal access to the rest of the IP world

The Codian IP GW 3500 Series lets customers, suppliers and partners easily call you over the Internet.

Simply add an IP address to your business cards to give partners the clarity and cost benefits of calling you with standard video conferencing endpoints or IP phones wherever they are in the world.

Use the auto attendant to let callers choose who to connect to.

Add voice and video switchboard operators to help screen your calls and route visitors to the right person or conference call.

It's yet another way in which Codian video conferencing infrastructure solutions help you conduct business better, every day.

### The Codian Difference

#### High Definition Communication

Crystal clear, full-motion, high definition capability allows the best possible visual experience when connecting between networks.

#### Universal Connectivity

Translation between SIP and H.323 and transcoding between a wide range of video and audio standards ensures connectivity between almost any IP endpoints. Dual Ethernet ports allow two completely independent IP networks to be connected.

#### IP Clarity

IP networks including the Internet offer higher bandwidths at lower costs than traditional telephone networks. This extra bandwidth allows you to use higher quality voice and video for clearer communication.

#### Ease of Use

Connects all your voice and video IP endpoints and infrastructure to the Internet. Easy integration without the need for a gatekeeper. Dial by phone number, IP address or through the interactive menu. Operator assistance built in to aid call routing. Simple to install and maintain.

#### Fast and Accurate Call Routing

Automatic Call Distribution between multiple operators, call pickup groups and powerful dial plans all work in unison to ensure calls reach their destination in the most expedient manner.

#### Robust and Reliable

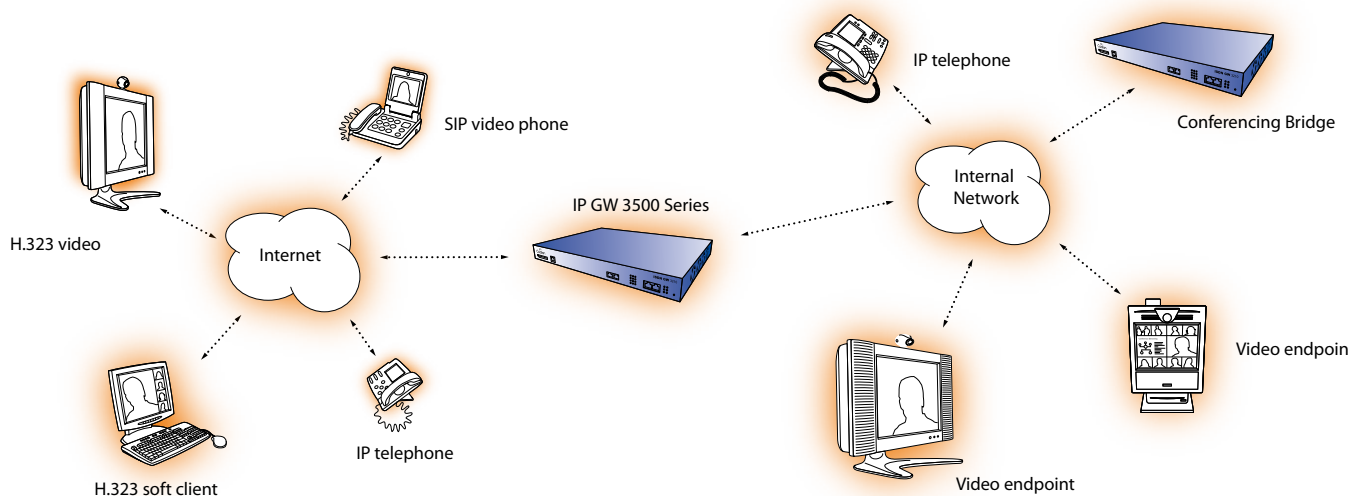
Designed from the ground up as network infrastructure, the Codian IP GW 3500 Series is rack mountable with custom non-PC hardware and a secure operating system. Includes comprehensive remote web management, reporting and upgrades.

#### Standards-based and Compatible

Offers full interoperability with SIP and H.323 endpoints combined with Codian's proven compatibility with all major vendors.

#### Packet Safe™ Technology

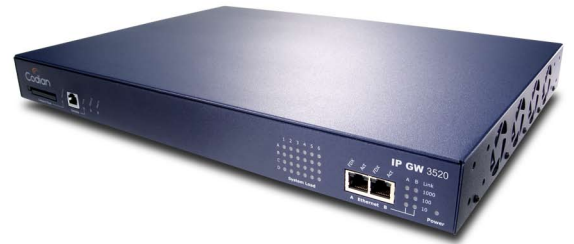
Ensures that packet loss anywhere in the network will have minimal impact on the quality of your call and most importantly, that you stay connected.



# IP GW 3500 Series Specifications

Model	Total Calls	Transcoded Calls
IP GW 3510	10	5
IP GW 3520	20	10
IP GW 3540	40	20

<b>GKO-100 / GKO-300</b>	Gatekeeper Option - increase maximum registrations with built-in H.323 gatekeeper from 25 to 100 or 300.
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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

## Operator Support

- Multiple operators option
- 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.323 v4, 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 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

## Built-in Gatekeeper

- Up to 25 devices can register
- Options to extend this to 100 or 300 devices
- Register service prefixes, H.323 IDs and E.164 aliases
- Round robin calls over common service prefixes for load balancing

## 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

- 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

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