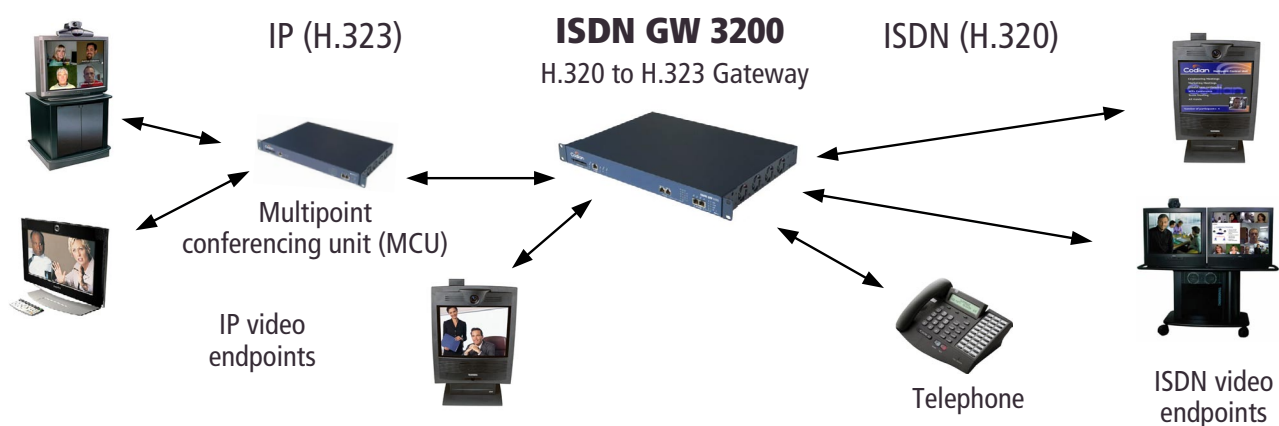# ISDN GW 3200

## ISDN to IP Video Conferencing Gateway

**The ISDN GW 3200 series is a range of high performance video gateways, which enables ISDN network connectivity for the Codian IP-based video infrastructure products as well as any IP-based endpoints.**



IP (H.323)     **ISDN GW 3200**     ISDN (H.320)
H.320 to H.323 Gateway

Multipoint conferencing unit (MCU)

IP video endpoints

Telephone

ISDN video endpoints

## MCU integration

The ISDN GW 3200 series provides seamless connectivity to the ISDN world from the Codian MCU 4200 series multipoint conference bridges without the need for a gatekeeper.

## Easy to use

Callers can dial by number from either IP or ISDN to connect through the gateway. Callers from ISDN can also connect using the gateway's built in video auto attendant.

Callers from ISDN to a Codian MCU can connect via the MCU's video auto attendant or directly to a conference by dialing the conference ID.

## Audio and video conferencing

As well as from video endpoints, the ISDN GW 3200 supports calls from ordinary telephones connected to the PSTN. This allows you to take advantage of the additional audio ports on the Codian MCU, turning it into an audio bridge as well as a video MCU.

## Scalable high capacity

Support for up to 8 ISDN T1 / E1 PRIs, with the number of sites limited only by the number of ISDN channels, means that the ISDN GW 3200 has the capacity to provide ISDN connectivity to all the IP endpoints on the network. Sharing ISDN lines for off-network calling removes the need for dedicated ISDN lines to each endpoint.

## Latest technology

Uses the latest hardware and software technology to deliver a fully featured and future proof product.

## Robust and reliable

Designed from the ground up as a network infrastructure product with a rack mountable chassis, custom non-PC hardware and a secure operating system. Includes comprehensive remote web management, diagnostics, reporting and upgrades.

## Standards based and compatible

Optimized for use in IP networks to give you the best possible video quality under real-world network conditions and compatibility with all the major IP and ISDN endpoint vendors.

## System Capacities

| Model | T1 / E1 ISDN PRI interfaces | Video calls at 384 kbit/s T1 / E1 | Video calls at 768 kbit/s T1 / E1 | Audio calls T1 / E1 |
|---|---|---|---|---|
| ISDN GW 3210 | 1 | 3 / 5 | 1 / 2 | 23 / 30 |
| ISDN GW 3220 | 2 | 7 / 10 | 3 / 5 | 46 / 60 |
| ISDN GW 3240 | 4 | 15 / 20 | 7 / 10 | 92 / 120 |
| ISDN GW 3280 | 8 | 30 / 40 | 15 / 20 | 184 / 240 |

## Product Specification

### Endpoints Supported

H.323 IP voice and video endpoints
H.320 ISDN voice and video endpoints
PSTN audio only calls (telephones) through ISDN

### Video Standards

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

### Video Resolution

QCIF, QSIF, CIF, SIF, 4CIF, 4SIF, VGA, SVGA, XGA

### Frame Rates

Up to 30 frames per second and 60 fields per second

### Audio Standards

G.711, G.722, G.728

### Protocols

H.323 v4, H.320, H.239 (dual video), ftp, Telnet, RTP, RTSP, HTTP, DHCP, SIP

### ISDN Bonding

BONDING (ISO 13871)
H.221 single and multi channel bonding
Automatic downspeeding on loss of ISDN B channels

### Bandwidth

H.320 / H.323 calls supported up to 768kbit/s
Total bandwidth and number of sites supported is limited only by ISDN capacity

### Call Routing from ISDN (H.320 / PSTN)

Direct Inward Dialing (DID)
Interactive Voice Response (IVR) / Video Auto Attendant (AA)
TCS-4
Default (Operator) extension
Call routing to MCU / multipoint conferencing bridge
Digit manipulation / flexible dial plan

### Call Routing to IP (H.323)

Dial by E.164 address
Digit manipulation / flexible dial plan
Dial from MCU both with and without Gatekeeper

### Presentation / Data Collaboration

Data from H.239 (dual video) capable endpoints

### Embedded Web Server

Complete configuration, control and monitoring of the system

### Localization and Customization

Custom IVR / AA audio prompts and graphics
Uploadable multi language support

### System Management

Management via embedded web server
RS-232 for local control and diagnostics
Telnet and Syslog for diagnostics
Configurable event logs and full H.323 / H.320 decoding
Configuration backup to network
Secure upgrades through Ethernet or Compact Flash
CDR records downloadable as XML
SNMP, XML API for third party management

### Quality of Service

DSCP, IP Precedence, TOS
H.323 flow control
Advanced IP jitter buffers

### Security Features

Administrator, User and Guest passwords
Password protected streaming and content playback
DTMF passwords for H.323 / H.320 endpoints
Secure non PC hardware and operating system
AES encryption, 128 bit key, H.235

### Interfaces

1 to 8 ISDN PRI ports, 2 ports per RJ 45
1 RJ45 Ethernet, 10/100/1000 Mbit/s full/half duplex, manual or auto sensing
RJ45 serial port
Compact Flash socket
Up to 39 status LEDs

### Environmental Data

Operating temperature 0°C to 35°C ambient
Relative humidity below 90%

### 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 stand-alone
Power 100-240 VAC, 50/60Hz
110W max power consumption



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