Codian MCU 4200 Series

Multimedia Conferencing Unit

The High Performance Voice and Video Conferencing Bridge

The Codian Multimedia Conferencing Unit (MCU) 4200 series is the most powerful conferencing bridge available, delivering the highest quality voice and video with an easy-to-use, versatile interface. Codian's Universal Port technology means each model maintains its capacity at all times. The 40-port MCU 4220 delivers 40 ports of video and audio, with 40 additional ports of audio every time. Codian's hardware MCU provides a rich multimedia experience with exceptional audio and visual clarity that makes it easy to communicate and share data effortlessly. Regardless of the size of your enterprise, Codian's solution can be expanded easily to meet your needs for corporate collaboration, distance learning, virtual trading rooms, telecommuting and more. With Codian's infrastructure solutions, you can conduct business better, everyday.

Over 50 Custom Layouts

The Codian Difference

Constant High Capacity
Universal Port technology supports any codec, any speed, any resolution, and any layout (including over 50 continuous presence layouts) on any port without loss of capacity or capability — greatly simplifying the planning, provisioning, and scheduling of your conference.

Best Quality for Each Participant
Delivers a unique video stream for each participant, resulting in the best possible audio and video quality for your participant's bandwidth and endpoint capabilities.

Investment Protection
Endpoint agnostic, making use of the latest capability of each manufacturer's endpoints to deliver the best conferencing experience for each user.

Standards-based and Compatible
Offers full interoperability with IP and ISDN networks (using the Codian ISDN Gateway), and proven compatibility with all major vendors.

Streaming Video and Content
The only MCU that allows you to stream video, audio and content to any web browser without any additional hardware or software.

Intuitive, User-Management
Schedule, manage and monitor individual conferences and independently select the continuous presence layout for each user, without the need to install any additional management software.

Packet Safe Technology
Works in conjunction with the unique MCU architecture to ensure that packet loss anywhere on the network will have little or no impact on the quality of your conference.

Enhanced Features

Web Conferencing Option
Add data, such as slides, chat and annotations to standard video and voice streaming, giving each participant an interactive experience regardless of how they connect.

Video Firewall Option
The second Ethernet port allows callers from both inside and outside the network to meet on the bridge, leaving your firewall untouched and your security levels unchanged.

High-Resolution Option
Supports enhanced resolutions from 4CIF up to 720p HD, allowing multiple sites to be viewed simultaneously with no loss of clarity — you can clearly see all participants and content at the same time.

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MCU 4200 Series Specifications

Enterprise IP MCU Models

Model	Video Participants Up to 2 Mbit/s per site	Additional Voice Participants	Video Streaming Unicast / Multicast
MCU-4205	12	12	60 / unlimited
MCU-4210	20	20	100 / unlimited
MCU-4215	30	30	150 / unlimited
MCU-4220	40	40	200 / unlimited

Software Options

VFO-4200	Video Firewall Option- Allows MCU connection to additional networks (e.g. Internet)
HRO-4205 / HRO-4210 / HRO-4215 / HRO-4420	High Resolution Option - For resolutions above CIF and up to 720p HD. Not required for H.239
WCO-4205 / WCO-4210 / WCO-4215 / WCO-4220	Web Conferencing Option - Provides streaming, annotation and chat capabilities

Using high bandwidth, 4CIF / 4SIF, H.264 or Advanced (symmetric) Continuous Presence does not reduce the number of sites supported.

Video Standards
H.261, H.263, H.263+, H.263++, H.264

Video Resolution
QCIF, QSIF, CIF, SIF, iCIF, iSIF, 4CIF, 4SIF, VGA, SVGA, XGA, 720p

Frame Rates
Up to 30 frames or 60 fields per second in all conference modes

Audio Standards
G.711, G.722, G.728, G.729, G.723.1, Polycom® Siren14 ™ / G.722.1 Annex C, AAC

Protocols
H.323 v4, H.235 (AES), H.239 (dual video), VNC™, ftp, RTP, RTSP, HTTP, DHCP, SIP

Bandwidth
H.263 up to 4 Mbit/s, H.264 up to 2 Mbit/s for each site in all conference modes including Advanced (symmetric) Continuous Presence

Universal Transcoding and Transrating
Automatic audio / video transcoding and transrating on all calls • Any bandwidth, any resolution, any video or audio codec can be used on any video call within the same conference • Each participant gets their own personal encode • Extremely low latency; less than 80 ms

Streaming Video
Embedded streaming server; unicast and multicast • Independent choice of bandwidth and codec • View using Windows Media Player™ or QuickTime™ • Streaming of slides (H.239 and VNC™) • Text chat

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

MCU Features
H.323 dial in, or dial out from Web server • Standalone or using Gatekeeper • Configurable audio and video Auto Attendant • Advanced Continuous Presence as standard on all ports • Automatic selection of best layout • Individual layout selection using remote control or Web pages • Over 50 custom layouts • Widescreen (16:9) support • Active speaker selection using remote control or voice activated • Floor assignment through Web page or management application • Far end camera control tunnelling using remote control or Web • Text identification of sites • On-screen text messaging to individual or all sites • Embedded conference scheduling and reservation • On-demand and ad hoc conferences • Dual video using H.239 • Presentation mode: add slides from PC using VNC™ • Preview of conference and individual camera on Web pages • Web Conferencing Option -those without end points can still interact • Uploadable bitmaps for audio participants • Video association for IP and traditional PBXs

Embedded Web Server
Complete configuration, control and monitoring of the system and conferences

Audio Features
Audio mixing at wide band
Built-in and uploadable Auto Attendant voice prompts
Automatic Gain Control, adjustable gain, power indication, individual audio mute using Web pages

System Management
XML management API
Management via embedded Web server
RS-232 for local control and diagnostics
Syslog for diagnostics
Configurable event logs and full H.323 decoding
Configuration backup to network
Secure upgrades through Ethernet or Compact Flash
Call Detail Records, SNMP

Quality of Service
Configurable DSCP or IP precedence

Network Resiliency
Intelligent downspeeding, packet pacing and packet loss concealment ensure optimum video and audio quality whatever the nature of the network

Security Features
Seven levels of access rights and privileges for users
Password protected conferences
Secure non PC hardware and operating system
Hardware AES encryption, 128 bit key, H.235
Video Firewall Option using second Ethernet port

Interfaces
2 x RJ45 Ethernet, 10/100/1000 Mbit/s full/half duplex, manual or auto sensing
RJ45 serial port, Compact Flash socket
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

Approvals and Compliance
European safety: EN 60950-1:2001
USA safety: UL 60950-1 first Edition
Canada safety: CSA 60950-1-03
EMC: EN55022 class B, EN55024, EN61000-3-2,-3
EN61000-4-2,-3,-4,-5,-6,-11, FCC Part 15 class A
CE marked

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