

MCU 4200

Multimedia Conferencing Unit

The MCU 4200 series is a range of technologically advanced multipoint control units – designed to bring you the highest possible voice and video conferencing quality available today – all combined with a versatile and easy to use interface



The MCU 4200 series are true hardware MCUs utilizing the latest video technology to process an unprecedented number of high bandwidth video streams.

Constant high capacity

Any codec (including H.264), any speed (up to 4 Mbit/s), any resolution (up to XGA) and any layout on any port without loss of capacity or capabilities. The number of sites and conferences supported remains the same regardless of the connection speed, resolution, continuous presence layout and codec.

Best quality for each participant

Video and audio processing is performed for each site rather than per conference which allows each site a video stream which can take full advantage of the features of their video endpoint and network link.

High bandwidth and advanced compression

Support for H.261, H.263, H.263+, H.263++, H.264 and bandwidths up to 4Mbit/s on each port means sites can connect with the optimum codec and speed with no reduction in the number of sites or conferences supported.

Advanced continuous presence

Each site can choose voice switching and one of over 50 custom continuous presence layouts independently of all of the other conference participants. Each site can also independently select who they see.

Dual video

Presentations and slides can be shared using the H.239 standard. Endpoints which do not support H.239 can view slides without upgrading and VNC can be used to contribute slides from a PC. Web conferencing is supported with "chat" and presentation mark-up.

Built-in streaming and web conferencing server

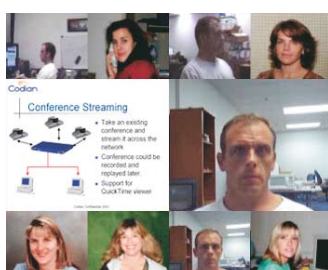
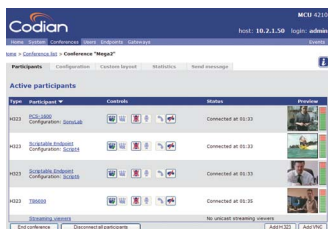
Allows streaming of both video and presentations to any web browser.

Standards based and compatible

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

Plus...

A firewall solution, integrated web server, scheduling, wide screen mode, video auto attendant (IVR), additional audio ports, easy to use and configure.



Enterprise IP MCU Models

Model	Video participants Up to 2 Mbit/s per site	Additional audio 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
HRO-4205 / HRO-4210 / HRO-4215 / HRO-4420	High Resolution Option - 12 / 20 / 30 / 40 ports of 4CIF / 4SIF or greater resolution
WCO-4205/4210/4215/4420	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, H.239

Video Resolution

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

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

Protocols

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

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

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
Extremely low latency; less than 100 ms

Streaming Video

Embedded streaming server; unicast and multicast
H.261, H.263+, H.263++, H.264 video
Independent choice of bandwidth and codec
Viewed using RealPlayer™, QuickTime™
Streaming of slides (H.239 and VNC)
Text chat

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
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
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
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
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

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
CDR records, SNMP^α, XML API

Quality of Service

Intelligent downspeeding, packet pacing and packet loss concealment ensure optimum video and audio quality whatever the nature of the network
DSCP, IP Precedence, TOS

Security Features

Multiple 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^α
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, EN61000-6-2, EN61000-4-2, -3, -4, -5, -6, -11, FCC Part 15 class A
CE marked



Codian Inc

1570 The Alameda #216
San Jose CA 95126
USA
Tel: (408) 287 6628
Fax: (408) 287 6630

Codian Ltd

14 Waterside Drive
Langley
Slough SL3 6EZ
United Kingdom
Tel: +44 (0)1753 548 333
Fax: +44 (0)1753 548 303

Codian (Asia Pacific) Ltd

Suite 1606, Saxon Tower
7 Cheung Shun Street
Cheung Sha Wan
Kowloon
Hong Kong
Tel: +852 3583 1430
Fax: +852 3583 1055

^α Not currently available, will require a software update