



Advantages of Conferencing With Emblaze-VCON VCB

- m** Video Transcoding for H.261, H.263 and H.264 in 4CIF and CIF resolutions in Voice Switching and Continuous Presence.
- m** AAC-LD audio support with transcoding.
- m** Up to 48 participants at any number of conferences with max. bandwidth of 4Mbps.
- m** Continuous Presence allows users to see up to 25 participants on screen. Layout change automatically according to the number of participants or can be set by the conference manager on-the-fly.
- m** Protection of calls using AES encryption.
- m** Password Protected Conferences.
- m** MS_Outlook integration for fast and easy scheduling.
- m** Allows mixed H.323 and SIP endpoints in a single multipoint conference.
- m** Incorporates H.239 support for simultaneously sending and receiving video and data streams.
- m** Supports Emblaze-VCON's Broadcast Viewer for viewing VCBPro streaming sessions.
- m** Easy Upgrade.
- m** Special Backup & Recovery engine to ensure short downtime in case of disaster.



VCB - The All-In-One MCU and Management Appliance

VCB is a High-End network appliance that integrates multipoint videoconferencing, advanced Video management capabilities, streaming and scheduling in a competitive price.

Invite any number of participants to an Ad-Hoc conference or schedule in advance conferences in any bandwidth and any video resolution. VCB is an advanced yet simple to use multipoint appliance and in complete video and audio transcoding, advanced and automatic conference layouts with up to 25 participants on screen and a special presenter mode for Remote Education and other vertical markets.

VCB Supports all the latest audio, video, and data algorithms and resolutions, ensuring that calls involving H.323 and SIP-based endpoints will connect and operate smoothly at the best quality possible.

Advanced Management system and gatekeeper

VCB includes the advanced Emblaze-VCON MXM management system to facilitate the daily tasks of video network management.

Apply security policies or configure the video conferencing system organization from the comfort of your seat with a single mouse-click. Allocate network resources for a user or a group, and enable advanced telephony services for all videoconferencing systems (follow me, on busy/away, pick-up, etc.).

Conference Streaming

This unique feature allows live streaming of a point-to-point or conferences while hundreds or thousands of other users can watch stream through a simple viewer application.

Using Emblaze-VCON's free-of-charge Broadcast Viewer, anyone on the network can see what sessions are being broadcast and can view the appropriate one.

Web-based Manager and Moderator

MS-Outlook and web-based scheduling and conference management allow a conference administrator to start immediately a conference or schedule in advance. During a conference, the conference manager can invite participants or disconnect any participant from the conference. He can also mute audio and video of a specific participant or of all as well as changing conference layout.



Emblaze-VCON's VCB offers a rich and varied selection of layouts to fit almost any multipoint conference.



Video Made Easy

Specifications

VCB Models

Model Name	12	24	36	48
No. of user ports	12	24	36	48
Gatekeeper size	25-port	50-port	50-port	100-port
Web-based Management	Yes	Yes	Yes	Yes
Streaming capability	Yes	Yes	Yes	Yes
Software subscription	Yes	Yes	Yes	Yes
Data sharing	Yes	Yes	Yes	Yes

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Communications Standards
 H.323, SIP, LDAP, HTML/HTTP, FTP,
 SMTP, RTP/RTCP

ITU-T Standards
 H.323, H.350, H.239, H.235

Audio Standards
 20 KHz: AAC
 7 KHz: G.722, G.722.1 Annex C
 8KHz: G.729
 3.4 KHz: G.711, G.723.1, G.728
 Audio transcoding

Video Standards
 H.264, H.263+, H.263+, H.263,
 H.261
 Resolutions: CIF, 4CIF
 H.239: VGA, SVGA, XGA
 H.281 Annex Q (FECC)

Data Rate
 30 fps up to 4 Mbps/participant
 (H.263, H.264)
 30 fps up to 1 Mbps/participant
 (H.261)

Scalability and Performance
 Up to 48 ports in CP or VS

Web-based Management —
Moderator, Scheduler, VCB
Configuration
 User ID/password authentication
 Add/remove participants
 User roles and permissions
 Group management
 Time zone coordination
 Services configuration
 Chair control modes:
 Lecture Mode
 Fixed
 Automatic Layout Transition
 Dominant speaker
 Scheduling calls
 Microsoft Outlook Integration
 Point-to-point
 Multipoint
 Recurring
 E-mail notification

Session configuration:
 VS or CP
 Number of participants
 Password Protected conference
 Rich, intelligent layouts
 Audio algorithm
 Conference data rate
 Start/stop multicast

Configuration
 Licensed in 12-port increments
 Cascading: VCB-VCB, VCB-other IP
 MCU

Gatekeeper Compatibility
 Emblaze-VCON MXM
 Any standard H.323 gatekeeper

Security
 H.235 (AES) encryption
 Emblaze-VCON Frontier
 Emblaze-VCON SecureConnect
 DES, 3DES, AES

Quality of Service (QoS) Features
 IP Precedence
 DiffServ
 RTP/RTCP port range configuration
 H.245 port range configuration

High Availability Features
 Hard Drive: RAID1 (mirroring)
 Memory: Dual 1GB
 NIC: Quad 10/100/1000 Mb Ethernet
 Software Service Watchdog



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