



Advantages of Conferencing With Emblaze-VCON VCB

- Web-based configuration program with scheduler, moderating, and monitoring.
- Chair control for conference administrator includes fixed, dominant speaker, and timer modes.
- Continuous presence allows users to see up to 16 participants at the same time. Conference managers may choose among a wide combination of rich, intelligent layout formations. Layouts change dynamically according to the number of participants.
- Data rates up to 4 Mbps per participant.
- Voice-Activated Switching in QCIF, CIF, 1CIF, 4CIF, VGA, SVGA, XGA.
- Handles up to 48 concurrent calls.
- Protection of calls using AES encryption.
- Allows mixed H.323 and SIP endpoints in a single multipoint conference.
- Incorporates H.239 support for simultaneously sending and receiving video and data streams.
- AAC-LD audio support with transcoding.
- Supports Emblaze-VCON's Broadcast Viewer for viewing VCB streaming sessions.



Cost-effective Multipoint Conferencing and Streaming for IP Networks

The VCB is a network appliance that integrates multipoint videoconferencing, streaming and scheduling into a single, affordable solution. Both scheduled and ad-hoc conferences are supported for a network of H.323 endpoints and SIP endpoints. The VCB includes advanced features, such as audio transcoding, speed matching and bandwidth management, as well as basic features such as continuous presence and rich, intelligent conference layouts (up to 16 participants at a time). Additionally, the VCB includes all the latest audio, video, and data algorithms, ensuring that calls involving H.323 and SIP-based videoconferencing endpoints will connect and operate smoothly. The VCB has a flexible architecture, with scalability from 12 to 48 ports.

Conference Streaming

This unique feature allows live streaming of a point-to-point conference or a multipoint conference while hundreds or thousands of other users can watch the stream through a simple viewer application. This feature can be remotely turned on and off by the session moderator before or during a call and works for either voice-switched or continuous presence conferences. 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. Now bundled with a low-cost MCU, organizations can stream training sessions, corporate broadcasts, important video meetings and more to all, or select employees.

Web-based Manager and Moderator

The web-based VCB Manager contains web-based scheduling, status monitoring, configuration and conference moderation capabilities. Point-to-point, multipoint, and recurring conferences can be scheduled. The scheduling function gives users many options while creating an event, allowing them to personalize it, including time zone conversion, automatic redial option and more. During conferences, managers have several chair control options, and can change display layouts as they see fit. Additional conference moderation capabilities include web data conferencing with Emblaze-VCON's WebShare, adding/removing participants, and starting/stopping multicast of the conference. Administrators can also set up call services which are used to connect multipoint calls. The Manager interface is intuitive, user-friendly and can be viewed in several different languages.



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
 3.4 KHz: G.711, G.723.1, G.728
 Audio transcoding

Video Standards
 Continuous Presence:
 H.261, H.263, H.264
 Resolutions: QCIF, CIF, 4CIF
 Voice-activated Switching:
 H.264, H.263+, H.263+, H.263,
 H.261
 Resolutions: QCIF, CIF, 4CIF,
 VGA, SVGA, XGA
 H.281 Annex Q (FECC)

Data Rate
 Continuous Presence (CP):
 30 fps up to 4 Mbps/participant
 (H.263, H.264)
 30 fps up to 1 Mbps/participant
 (H.261)
 Symmetric bandwidth
 Voice-activated Switching (VS):
 30 fps up to 4 Mbps/participant

Bandwidth Adjustment
 Speed matching
 Symmetric video

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:
 Fixed
 Dominant speaker
 Timer (polling)
 Scheduling calls
 Point-to-point
 Multipoint
 Recurring
 E-mail notification
 Microsoft® Outlook® calendar
 compatible
 Session configuration:
 VS or CP
 Number of participants
 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

Web Data Conferencing Features
 Emblaze-VCON WebShare
 Sharing programs visible on
 screen

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 512 MB
 NIC: dual 10/100/1000 Mb Ethernet
 Software Service Watchdog



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 DOC50102 Rev. 11 07/06

