



Advantages of Conferencing With Emblaze-VCON VCBProHD

- ↘ Video Transcoding for H.261, H.263 and H.264 in 1080p, 4CIF and CIF resolutions in Voice Switching and Continuous Presence.
- ↘ AAC-LD audio support with transcoding.
- ↘ Recording and streaming capabilities
- ↘ Up to 36 participants at any number of conferences with max. bandwidth of 4Mbps.
- ↘ Continuous Presence allows users to see up to 25 participants on screen.
- ↘ Password Protected Conferences.
- ↘ Multilingual Voice Notifications.
- ↘ MS Outlook integration for fast and easy scheduling.
- ↘ VCBProHD Cluster Mode to ensure continuous operation.
- ↘ Allows mixed H.323 and SIP endpoints in a single multipoint conference and ISDN/PSTN 3G through external Gateway.
- ↘ Supports Emblaze-VCON's Broadcast Viewer for viewing VCBProHD recorded and streamed sessions.
- ↘ Special Backup & Recovery engine.
- ↘ H.460.18/19 support
- ↘ Moderation



All-In-One, High Definition MCU with Unique Cascading, Video Recording and Streaming Capabilities

The VCBProHD is Emblaze-VCON's all-in-one, high definition MCU that integrates multipoint conferencing, advanced video management capabilities, video recording, streaming and scheduling in a single, cost-effective appliance. An advanced yet easy-to-use solution that optimizes your enterprise's videoconferencing network, the VCBProHD includes an embedded MXM, Emblaze-VCON's full-feature management tool. It also comprises features such as Continuous Presence intelligent conference layouts for up to 25 participants at a time, and a special Presenter Mode for remote education and other vertical markets. Users can invite any number of participants to an ad-hoc or prescheduled conference at any bandwidth, and video resolution. The VCBProHD includes all the latest audio, video and data algorithms, ensuring that calls involving standards-based videoconferencing endpoints connect and operate smoothly. The VCBProHD is scalable from 6 to 36 ports and now offers a unique and configurable cascading capability across multiple VCBs for larger conferences.

Advanced Management System and Gatekeeper

The VCBProHD includes an embedded MXM, Emblaze-VCON's award winning, full-feature management tool, for exceptional video network management and total gateway functionality for legacy and advanced technologies. From a single console in the office, home or on the road, it provides the ability to configure, monitor, manage, upgrade and enforce company conferencing policies on any videoconferencing client in the organization. The MXM also offers a full suite of tools for centrally managing and administering bandwidth requirements as well as QoS prioritization for each endpoint, a billing engine and reporting capabilities. Full video telephony features include: follow-me, forward when busy, no answer, pick-up, easy dialing to systems outside the organization and directory listing.

WMV Recording and Streaming

Now offering high definition, WMV session recording, the VCBProHD enables every videoconference session to be recorded, stored and forwarded, allowing even absent colleagues to remain fully updated instantaneously and providing definitive session records. The VCBProHD also contains the unique WMV streaming feature, which allows live streaming of point-to-point or multipoint conferences while hundreds or thousands of other users can watch the 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

The VCBProHD Manager offers full-featured, web-based applications for scheduling, status monitoring, configuration and conference moderation capabilities. During conferences, managers have chair control options, and can change display layouts. Additional conference moderation capabilities include adding / removing participants, and starting / stopping multicast streaming 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.

Specifications

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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-LD
14 KHz: G.722.1 Annex C
7 KHz: G.722, G.722.1
3.4KHz: G.711, G.723.1, G.728,
G.729
Audio transcoding

Video Standards
H.264, H.263+, H.263+, H.263,
H.261
Resolutions: CIF, 4CIF, 720p, 1080p
H.239: VGA, SVGA, XGA, 720p
H.281 Annex Q (FECC)
Full video and H.239 transcoding

Data Rate
30 fps up to 6 Mbps/participant
(H.263, H.264)
30 fps up to 1 Mbps/participant
(H.261)

Dialing
Global address book
LDAP
MXM Users
Groups

Scalability and Performance
Up to 36 ports in CP or VS based
on resource pool limitation
Licensed in 12-port increments

Scheduler
Scheduling calls/groups
Express mode
Time zone coordination
Resource reservation
MS Outlook Integration
Point-to-point
Multipoint
Recurring
E-mail notification

Moderator
User ID/password authentication
Add/remove participants
User roles and permissions
Group management
Services configuration
Chair control modes:
Lecture Mode
Text Messages
Fixed
Automatic Layout Transition
Dominant speaker
Recording
CIF: 3000 hours, 4CIF: 2000 hours,
720p: 1000 hours, 1080p: 500 hours
Streaming (limited by bandwidth only*)
Multicast
Service/Conference configuration
VS or CP
Number of participants
Password Protected conference
Rich, intelligent layouts
Audio algorithm
Conference data rate

Interfaces
Web-based
MXM Admin
SSH

Monitoring
SNMP
Event Log

Cascading
Cascading: VCB-VCB, VCB-other IP
MCU
VCON Advanced Cascading Mode

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

Security
H.460.18/19
H.235 encryption

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: 12GB
NIC: 4 x Gb Ethernet
Redundant Power Supply
Front LCD in some of the models
Software Service Watchdog

