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

**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**
- 14 KHz: AAC-LD
- 7 KHz: G.722, G.722.1 Annex C
- 3.4 KHz: G.711, G.723.1, G.726, G.729

**Video Standards**
- H.264, H.263++, H.263+, H.263, H.261
- Decimation: CIF, 4CIF, 720p, 1080p
- H.239: VGA, SVGA, XGA, 720p
- 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

**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 algorithms
- 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-VCN 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