

## VCON Conference Bridge 2000

### *Cost-effective multipoint conferencing and streaming for IP networks*

#### Main Features

- Scalable from 3-64 participants/session
- Up to 4Mbps per participant
- Dial in support
- Audio add-in
- H.261, H.263++, H.264
- Cascading

#### MXM Key Features

- Ad-hoc conferencing
- Remote call initiation
- Remote call termination
- Session configuration
- MCU permission groups
- View VCB 2000 statistics on MXM console

#### Streaming Features

- Uses bandwidth-efficient multicasting
- Data rates up to 4Mbps
- Use VCON Broadcast Viewer to passively view streamed sessions
- Turn on and off via web-based session moderator

#### VCON Conference Moderator

- Web-based
- Chair control
- WebShare for data conferencing
- Schedule point-to-point or multipoint conferences
- Automatic redial option
- Session configuration
- Add/remove participants
- Start/stop streaming

The VCON Conference Bridge 2000 (VCB 2000) combines traditional multipoint videoconferencing and streaming into a single, low cost solution. This allows interactive conferences to be broadcasted to hundreds or thousands of passive participants via bandwidth-efficient multicasting. In addition to common IP MCU features like voice-activated switching and continuous presence, VCB 2000 also supports more advanced features like chair control, cascading and wide-band audio with transcoding. With an embedded gatekeeper and remote management agent, the VCB 2000 is shipped as an integrated solution in a rack-mount engine. Scalability up to 64 ports per server gives plenty of expandability and investment protection.

- Web-based scheduler and conference session moderator including chair control
- Continuous presence support allows users to see up to 4 participants simultaneously
- Voice-activated switching in which all participants see only the person talking
- Allows mixed SIP and H.323 endpoints in a single multipoint conference
- Support for VCON's HD DualStream™
- Wide-band G.722 audio support with transcoding
- Use VCON's Broadcast Viewer to passively view VCB 2000 streaming sessions
- Includes vPoint HD conferencing clients up to the number of VCB 2000 ports

### **Embedded Streaming Server**

This unique feature allows live streaming of an individual user, a point-to-point conference or a multipoint conference while hundreds or thousands of other users can passively watch the stream using 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 VCON's free of charge Broadcast Viewer, anyone on the network can see what sessions are being broadcast and can passively 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.

### **Conference Moderator**

Included with the VCB 2000 is the VCON Conference Moderator. The Conference Moderator includes web-based scheduling and conference moderation capabilities. Most types of conferences can be scheduled, including point-to-point, multipoint, gateway calls, and recurring events. The scheduling function gives the user many options while creating an event, allowing them to personalize it, including time zone conversion, automatic redial option and more. The conference moderation capabilities are robust, including chair control, web data conferencing with VCON's WebShare or with WebEx®, adding/removing participants, and starting/stopping streaming of the conference. The Conference Moderator interface is intuitive and user-friendly and can be viewed in several different languages.



*The VCB 2000 brings another dimension to video telephony, allowing users to effortlessly participate in and monitor multipoint calls and streaming video sessions.*

## VCB 2000

### What's included?

VCB Model	2008	2016	2032	2064
Ports	8	16	32	64
Gatekeeper size	10-user	25-user	50-user	100-user
Conference Moderator	Yes	Yes	Yes	Yes
Streaming capability	Yes	Yes	Yes	Yes
vPoint HD software clients	10	25	50	100
Software subscription	Yes	Yes	Yes	Yes
Server size	1U rack-mount	1U rack-mount	1U rack-mount	1U rack-mount
Data conferencing	Option	Option	Option	Option

Up to 100 users can be registered to the embedded gatekeeper inside the VCB 2000. If more users are required, the gatekeeper (MXM) must be moved to a separate server. Additionally, each VCB 2000 can be upgraded to a maximum of 64 ports with a software-only license upgrade.

### Specifications

#### Communications Standards

H.323  
SIP  
LDAP  
HTML/HTTP

#### Audio Standards

G.711  
G.722  
G.711-G.722 audio transcoding

#### Video Standards

Continuous presence: H.261  
Voice activated switching: H.264,  
H.263+, H.261  
Resolutions: QCIF, CIF, 4CIF, XGA

#### Data Rate

Continuous Presence:  
Up to 384Kbps per participant  
Voice Activated Switching:  
Up to 4Mbps per participant

#### Scalability and Performance

Maximum active participants per server:  
64- all conferences using G.711 audio  
32- all conferences using G.722 or  
mixed G.711/G.722 audio  
Maximum conference session size  
64 - G.711 audio  
32 - G.722 or mixed G.711/G.722

#### Configuration

Licensed in 8 port increments  
Sessions configurable in 1 port increments  
Dynamic resource allocation pool  
Cascading: VCB-VCB, VCB-other IP MCU

#### Conference Moderation Features

Web-based interface  
User ID/password authentication  
View conference statistics  
Add/remove participants from conference  
Chair control:  
Fixed mode  
Timer mode (polling)  
Lecture mode (students see teacher,  
teacher polls students)  
Session configuration:  
Voice-switched or continuous presence  
Number of participants  
Audio algorithm  
Conference data rate  
Start/stop streaming

#### Scheduling Features

Web-based interface  
Scheduling calls  
Point-to-point  
Multipoint  
Gateway  
Recurring events  
Outlook calendaring  
Automatic time zone conversion

#### Web Data Conferencing Features\*

VCON WebShare  
Share any program open on the screen  
Data viewed through conference  
moderator web-based interface  
WebEx data conferencing:  
Access via existing WebEx account  
Share any program open on the screen  
Data viewed through conference  
moderator web-based interface

#### PacketAssist Features

IP Precedence  
DiffServ  
RTP/RTCP port range configuration  
H.245 port range configuration

#### High Availability Features

Hard Drive: RAID1 (mirroring)  
Memory: dual 256M  
NIC: dual 10/100 Ethernet  
Software Service Watchdog

\* Optional module

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