



# viaIP™ MCU

for point-to-point and multipoint videoconferencing and real-time collaborative communications

RADVISION viaIP™ MCUs (Multipoint Conferencing Units) are one of the most technologically advanced, high-density, feature-rich, and easy-to-use multipoint conferencing solutions on the market today.

The MCU is a core infrastructure solution in enabling true multimedia, multiparty collaboration in applications such as group conferencing, distance learning, training and managed video telephony by service providers – for true multimedia, multiparty communications in the board room, at the desktop, at the home, or on the road over wireless.

RADVISION MCUs support multipoint voice, video and data collaboration and communications over any network, using any protocol, and to any end point.

RADVISION viaIP MCUs enable the best in communications - with core IP-centric functionality, a host of layouts, powerful audio and video transcoding, advanced resource management, an open API for customer application development, support of Web-initiated data collaboration, and software upgradeable technology, to adapt to the networks, needs, protocols and end points of tomorrow.

The cornerstone of RADVISION's viaIP family of conferencing solutions, the viaIP MCU is available as a stand alone platform (viaIP 100) or as a component of a larger chassis-based system (viaIP 400).

**RADVISION MCUs are part of the viaIP family of multipoint conferencing units, data collaboration, gateways, utilities and applications for rich media collaborative communications in enterprise, carrier and distributed network deployments.**

## Seamless Interoperability

viaIP MCUs are built on the strong foundation of RADVISION's market-leading H.323 and SIP software, ensuring full compliance and unmatched interoperability with IP and ISDN networks. When used with a RADVISION any-to-any gateway, the MCU enables H.323, SIP, ISDN, V.35 and 3G-324M wireless devices to participate in the same conference session.

## Unmatched Video Quality

The viaIP MCUs deliver exceptionally high quality video and audio processing, using the latest industry standards and leveraging advanced software upgradeable DSP chips.

## Intuitive Web-Based Management And Control

Both the MCU system and actual conference sessions are managed, configured, and dynamically modified through an intuitive, Web-based interface that offers easy, high-level conference control and administrative flexibility for an enhanced user experience.

## Robust Performance And High Availability

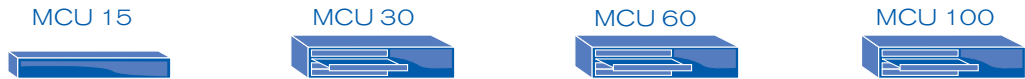
Driven by powerful algorithms that ensure high quality video processing, viaIP MCUs ensure exceptionally low latency and delay resulting in the most reliable, robust multipoint conferencing performance in the industry today.

## viaIP MCU Highlights

- "Expert-Ease" provides intuitive and automated conferencing features including Picture-in-Picture, Auto-Switching, zoom on active speaker and built-in Web based control and administration
- "Natural-Motion" advanced multimedia processing and functionality for bandwidth optimization, providing a new level of video quality
- "Multi-View" support for any standard-based communication device including SIP, H.323, H.320, V.35 & 3G-324M and web-initiated data collaboration
- Based on robust IP technologies for reliability, scalability, software upgrade, & distributed processing



vialP MCU SPECIFICATIONS:



Voice	26 Ports	45 Ports	90 Ports	150 Ports
128Kbps	15 Ports	30 Ports	60 Ports	100 Ports
384Kbps	12 Ports	24 Ports	48 Ports	70 Ports
512Kbps	12 Ports	24 Ports	48 Ports	60 Ports
768Kbps	12 Ports	24 Ports	48 <sup>1</sup> Ports	48 Ports
1.5MB	6 Ports	12 Ports	24 Ports	28 Ports
2M	4 Ports	8 Ports	16 Ports	22 Ports
Maximum Audio Transcoding Ports	15 Ports	30 Ports	48 <sup>2</sup> Ports	15 Ports

**Supported Protocols:**

- H.323 V.4
- SIP
- 3G-324M<sup>3</sup>
- H.320<sup>3</sup>
- H.239

**Optional Audio Transcoder Module:**

- G.711 A/μ Law
- G.722
- G.722.1
- G.723.1
- G.728
- G.729 A

**Video Coding:**

- H.261
- H.263
- H.263++
- H.264

**Supported Resolutions:**

- QCIF
- CIF
- 4CIF
- SIF
- 4SIF
- XGA
- VGA
- SXGA
- XGA

**Data Protocol:**

- T.120
- T.281 FECC

**“Expert-Ease”**

**Easy, intuitive and automated conferencing, turning any novice into an instant expert**

**Web-Based Monitoring and Control:**

- With simple user-friendly configuration the vialP Administrator web interface provides remote monitoring and configuration from any location using a Java-enabled web browser:
- Real time conference control capabilities
  - Password protection
  - Multiple user access level :
    - Administrator
    - Conference Manager
    - User
  - Conference statistics
  - Drag and Drop
  - Sub-Conferencing
  - Conference Admission
  - Operator Assistance

**Complete suite of display and layout options to meet your needs<sup>4</sup> (optional hardware module):**

- Continuous Presence mode enables an enhanced and simultaneous view of conference participants with a choice of 26 different layouts that can vary in choice from 16, 1+12, 2+8, 9, 1+7, 3+4, 1+5, 4,3,2 and 1
- Unique Picture-in-Picture display
- Dynamic Layout according to the number of conference participants
- Multiple voice activated modes including All See One, See You See Me, Auto-Zoom and Recent
- Automatic Switching
- Text and Frame Overlay
- Supports symmetrical and asymmetrical up and down streams for optimal bandwidth utilization, and ADSL networks

**Custom IVR Messages:**

- IVR messages can be recorded to provide custom greetings and announcements

**“Natural-Motion”**

**Advanced multimedia processing and functionality for a new level of video quality**

**Down Speeding:**

Enables the completion and maintaining of a call during loss of ISDN B channels

**“Net-Save” Bandwidth Optimization:**

Save on network resources with direct commands to the terminals to discontinue sending video streams of participants not displayed on screen

**Quality of Service (QoS):**

Support for Diffserve QoS

**Rate Matching:**

Each endpoint in a videoconference can participate according to individual video bandwidth capabilities without affecting the connection of other participants

**Security and Privacy:**

Password-controlled access to all web interfaces

**“Multi-View”**

**The one conferencing solution for seamless support for any protocol, media and Device**

**SIP Protocol Support:**

- Full interoperability with ISDN, H.323, and 3G-324M networks
- Full integration with Microsoft Office Live Communications Server 2003 (LCS) allowing multipoint voice and video with Windows Messenger

**Web-Initiated Data Collaboration Support:**

Enables conference participants to view diagrams, graphic presentations, slide lectures, whiteboard exchanges or rapid file transfers simultaneously with other videoconferencing participants from a standard Web browser

**Adaptive Multi-View of Data and/or Video**

- TANDBERG endpoint support (DuoVideo) when transmitting more than one video channel
- Allows the user to view either the people or the presentation content

**Cascading:**

Supports the bridging of several separate conferences using either IP or ISDN connections to create very large conferences

**Clustered Topology:**

Distribution of up to 8 MP units to multiply the number of concurrent conferences and the number of total available calls

**XML based Software Developers Kit:**

Remote Access SDK enables remote management and call control capabilities using both SNMP and XML based APIs for development of vertical market applications

**Streaming and Recording:**

The MCU provides standard interfaces which support streaming and recording servers (Available from “Starbak”)

**Interfaces:**

- IP - 10/100BASE-T Ethernet IP network UTP connection
- Serial - RS-232 DTE 9-pin D-type connection
- PRI<sup>3</sup>
- BRI<sup>3</sup>
- V.35<sup>3</sup>

**Warranty:**

- One year return-to-factory. Extended warranties and support services available.
- For cabling information and other details, contact your local reseller

<sup>1</sup> MVP support is required to achieve maximum conference capacity for calls at this rate

<sup>2</sup> Requires MVP support to achieve the maximum capacity for audio transcoded calls. When MVP support is not available, the maximum number of calls is 30

<sup>3</sup> Requires vialP Gateway

<sup>4</sup> Requires additional vialP multimedia processing module

More information on RADVISION vialP MCU products and the vialP family is available from RADVISION sales agents or VARs, or contact us at [www.radvision.com](http://www.radvision.com).

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