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vialP™ MCU

For multipoint videoconferencing and real-time collaborative communications

RADVISION vialP™ 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 vialP 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 vialP family of conferencing solutions, the vialP MCU is available as a stand alone platform (vialP 100) or as a component of a larger chassis-based system (vialP 400).

RADVISION MCUs are part of the vialP 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

vialP 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

vialP MCUs deliver exceptionally high quality video and audio processing, using latest industry standards and leveraging upon advanced software upgradeable DSP chips. RADVISION's QualiVision™ feature provides highly improved, standard-based video quality for networks with packet loss, assuring best video quality at all times.

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, vialP MCUs ensure exceptionally low latency and delay resulting in the most reliable, robust multipoint conferencing performance in the industry today.

vialP MCU Highlights

- Intuitive and automated conferencing features including Picture-in-Picture, Auto-Switching, zoom on active speaker and built-in Web based control and administration
- Advanced multimedia processing and functionality for bandwidth optimization, providing a new level of video quality
- Support for any standard-based communication device including SIP, H.323, H.320, V.35 & 3G-324M and web-initiated data collaboration
- H.235 (AES and DES) encryption for privacy of content
- Based on robust IP technologies for reliability, scalability, software upgrade, & distributed processing

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RADVISION®
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viaIP MCU SPECIFICATIONS

	MCU 15	MCU 30	MCU 60
Voice Only	26 Ports	45 Ports	90 Ports
128 Kbps	15 Ports	30 Ports	60 Ports
384 Kbps	12 Ports	24 Ports	48 Ports
512 Kbps	12 Ports	24 Ports	48 Ports
768 Kbps	12 Ports	24 Ports	48 Ports
1.5 MB	6 Ports	12 Ports	24 Ports
2 MB	4 Ports	8 Ports	16 Ports
Maximum Audio Transcoding Ports	15 Ports	30 Ports	48[1] Ports

Supported Protocols:
- H.323 V.4
- SIP
- 3G-324M[2]
- H.235 - (AES & DES)[4]
- H.320[1]
- 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
- VGA
- SVGA
- XGA

Data Protocols:
- T.120
- H.281 FECC

Interfaces:
- IP - 10/100BASE-T Ethernet IP network UTP connection
- Serial - RS-232 DTE 9-pin D-type connection
- PRI[2]
- BRI[2]
- V.35[2]

Easy, intuitive and automated conferencing administration and control

Web-Based Monitoring and Control:
With simple user-friendly configuration the viaIP 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[3] :
- 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
- 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

Advanced mutimedia, quality of service and security

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

QualiVision™
provides highly improved, standard-based video quality for networks with packet loss, assuring best video quality at all times

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
- H.235 (AES and DES) encryption for privacy of content

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

Seamless support of any protocol, media and device

SIP protocol support:
Complete SIP support including:
- Full interoperability with ISDN, H.323, and 3G-324M networks
- Full integration with Microsoft® Office Live Communications Server 2005 (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
- Standard based H.239 and TANDBERG'S DuoVideo
- Allows the user to view either the people or the presentation content

Streaming and Recording:
The MCU provides standard interfaces which support streaming and recording servers (Available from "Starbak")

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

Warranty: One year return-to-factory. Extended warranties and support services are available.

[1] G.722.1 and G.728 codecs are limited to 30 transcoded ports. Other codecs require MVP support to achieve the maximum capacity. When MVP support is not available, the number of calls is 30
[2] Requires viaIP Gateway
[3] Requires additional viaIP multimedia processing moduel (MVP)
[4] Port capacities when using encryption are reduced by half.

More information on RADVISION viaIP MCU products and the viaIP family is available from RADVISION sales agents, resellers, or visit the RADVISION Website at www.radvision.com

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