



# AETHRA MCU

AETHRA MCU-12 / AETHRA MCU-24



**Multiparty conferencing unit** with full video and audio transcoding, SIP and H.323 support

**ISDN Gateway** for H.320 connectivity (included with specific AETHRA MCU models)

**Aethra Director Suite**  
H.323 gatekeeper for complete call control and dial plan schemes with Network Management - for conference scheduling and management of infrastructure elements and endpoints

## OVERVIEW

AETHRA MCU is a complete visual communications solution, offering multiparty conferencing with advanced video processing for H.323, SIP and ISDN networks.

The AETHRA DIRECTOR SUITE is AETHRA MCU management package and includes full gatekeeper functionality; complete scheduling capabilities; and comprehensive control and monitoring of your network.

Designed for today - and tomorrow - AETHRA MCU is a cost effective, packet-based solution that will transport your business to a new level of rich-media voice and video collaborative communications.

### Complete videoconferencing solution

AETHRA MCU offers a complete point-to-point and multi-party conferencing solution including gateway functionality, gatekeeper call control and effective management of network resources for the ultimate visual communications experience.

### End-to-end connectivity

AETHRA MCU is a mature and market-proven solution enabling connectivity of all videoconferencing systems regardless of the protocols (H.323, SIP or H.320) or devices (room systems, desktop and PSTN and mobile phones).

### Complete audio and video processing

All AETHRA MCU ports support audio and video transcoding and transrating. Each user enjoys the full benefits of advanced video processing including: advanced CP layouts, rate matching, text and frame overlay and active speaker indication.

QualiVision™ maintains video quality for networks with packet loss, assuring best video quality at all times.

### Comprehensive and intelligent call management

AETHRA MCU provides gatekeeper functionality and everything you need to define, control and manage voice and video traffic over your network.

### Centralized network management

AETHRA MCU offers a global, centralized view of the entire visual communications network. Administrators can easily control, configure, and manage their video network devices and endpoints.

### Ad-hoc and Scheduled Meeting Services

AETHRA MCU supports both ad-hoc and scheduled conferencing. Meetings can be scheduled from a Web interface or via Microsoft Outlook. Scheduled meetings reserve the ports, bandwidth and devices required for the conference.

### Scalability and Distribution

AETHRA MCU modules can be combined to form a highly scalable, centralized or distributed conferencing solution. Let your video network infrastructure grow according to your needs.





**TECHNICAL SPECIFICATIONS**

**VIDEO AND AUDIO SUPPORT**

- Protocols H.323, H.320, SIP
- Audio Codecs G.711, G.722, G.722.1, G.723.1, G.728, G.72 A
- Video Codecs H.261, H.263, H.263+, H.263++, H.264
- Video Resolution QCIF, CIF, 4CIF, VGA, SVGA, XGA and NTSC modes

**NETWORK PROTOCOLS**

- H.239 and Duo Video for presentation sharing
- H.235 Encryption AES and DES (Port capacity drops to half when using encryption)
- T.120 for application sharing, whiteboard illustrations and text messaging.

**VIDEO QUALITY**

- QualiVision™ for highly improved, standard-based video quality in networks with packet loss
- QoS support with DiffServe, TOS, IP Precedence

**ADVANCED VIDEO PROCESSING FOR ALL PORTS**

- Continuous Presence, displaying up to 16 conference participants on one screen
- Video Transcoding (H.261, H.263, H.264)

- Rate Matching
- Text overlay (e.g. conference participant's name)
- 26 layout options including Picture-in-Picture
- Dynamic rollover
- Lecture mode

**GATEKEEPER FUNCTIONALITY**

- User configurable dial plan
- Authentication and directory service support with the H.350 standard

**NETWORK MANAGEMENT AND CONFERENCE SCHEDULING**

- Complete network status and statistics including endpoint information
- Network-wide view of calls and conferences
- Element tree, map, table and customized views
- Display of events and errors received from elements for error management
- Easy Web-based scheduling and ad-hoc videoconferencing
- Microsoft Outlook scheduling option for complete office integration
- Meeting templates for personalized and easy scheduling

**PHYSICAL DIMENSIONS**

- 19-inch, rack-mountable closed unit of 1U height

**ENVIRONMENTAL REQUIREMENTS**

- Operating temperature: 0°C to 40°C (32°F to 104°F).
- Storage temperature: 25°C to 70°C (-13°F to 158°F), ambient
- Relative humidity: 5% to 90% non-condensing

**POWER MODULE**

- Input 100-240VAC Autodetect 50/60Hz

**WARRANTY**

- One year return-to-factory
- Extended warranties and support services are available on request

**AETHRA MCU Specifications**

		AETHRA MCU-12*	AETHRA MCU-24*
Form factor			
Multiparty Voice Port Count		26 Ports	45 Ports
Multiparty Video Port Count		12 Ports	24 Ports
Management	H.323 Gatekeeper Ports	30 Ports	50 Ports
	Conference Scheduler Ports	15 Ports	30 Ports
	Network Manager Elements	5 Ports	5 Ports

\* Port capacities when using encryption are reduced by half.

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