

aethra mcu+

Videoconference Infrastructure



Advanced audio-video processing

Multipoint Conferencing Units (MCUs) with full video and audio transcoding, SIP and H.323 support

Aethra Director Suite

H.323 gatekeeper for complete call control and dial plan schemes and Network Management for conference scheduling and management of infrastructure elements and endpoints

Desktop Connectivity

Aethra Desktop Server to extend the reach of video networks to desktop and remote users



Aethra MCU+ is a complete visual communications solution that delivers a very cost-effective, high quality video experience- anywhere and anytime.

Aethra MCU+ is part of the Aethra's infrastructure offering that can be used to connect meeting rooms, desktop users and mobile users in large scale distributed network deployments.

High Definition Video Conferencing experience

The Aethra MCU+ video conferencing and collaboration solution allows Web-based conferencing users to experience the high quality of high definition room system equipment and infrastructure.

Optimized Capacity

With the Aethra MCU+ solution's optimized capacity users receive maximum value for their investment. Port capacity is consistently optimized, independent of video codecs or video quality - from High Definition to Standard video.

Easy Ad hoc and Scheduled Meeting Setup

Easy conference access and creation is guaranteed thanks to the video auto attendant supporting both ad hoc and scheduled conferences. Meetings can be scheduled from a Web interface, via Microsoft® Outlook™ or IBM® Lotus® Notes®.

Scalable and distributed for right-sized capacity

Aethra MCU+ Series modules can be combined to form a highly scalable, centralized or distributed conferencing solution.

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Technical Specifications



- Capacity**
 - Optimized capacity provides optimized capacity and port cost to each conferencing application working point (High Definition, Standard Definition, and Desktop)
- Signaling Protocols**
 - H.323, SIP
 - H.320 and H.324M (through GWs)
- Audio Support**
 - Audio codecs - G.711, G.722, G.722.1, G.723.1, G.728¹, G.729AB¹
 - Custom participant entry/exit tones
 - DTMF tone detection (in-band, H.245 tones, and RFC2833)
- Video Support**
 - Continuous Presence High Definition support - H.264 @ 720p up to 30fps
 - Video codecs - H.261, H.263, H.264
 - Live video resolutions - QCIF, CIF/SIF, 4CIF, 288p, 384p, 400p, 448p, 480p, 576p, 720p
 - Presentation video resolution - VGA, SVGA, XGA, 720p
 - Video bandwidth - up to 4Mbps
 - Advanced video processing: video transcoding, rate matching, text overlay, 28 layout options, dynamic layout according to number of conference participants and lecture mode
- Data Collaboration and Presentation Sharing**
 - H.239 and DuoVideo for presentation sharing
- Security**
 - H.235 AES/DES encryption for secure conferencing²
 - Password protected Web GUI user access with multiple levels:
 - Administrator, Operator, and User
 - PIN protected conferences
 - HTTPS for secured management
- Web-Based Monitoring and Control**
 - Simple, user-friendly Web interface enabling MCU configuration and conference operation
- Video Auto-Attendant**
 - Leading number support
 - IP dialing support
 - Multi Lingual support
- Conference Control from the Endpoint**
 - H.243 conference control
 - DTMF-based conference control
- QoS**
 - QoS support with DiffServe, TOS, IP Precedence
- Desktop Connectivity via Aethra Desktop Server³**
 - Live connection (Audio, Video, Data) / Data only connection and streaming mode.
 - Built-in NAT and Firewall traversal
 - Virtual rooms support
 - Easy scheduling via Microsoft[®] Outlook[™] or Lotus[®] Notes[®]
 - Web-based scheduling
- Management via AeDS⁴**
 - Gatekeeper functionality (H.323 support)
 - B2BUA - Back to Back User Agent (SIP support)
 - Supports multiple devices for load balancing and failover
 - User configurable dial-plan
 - Full H.245 routing and control for call monitoring and authorization
 - Complete network status and statistics
 - Network-wide view of calls and conferences
 - Central terminal configuration
 - Display of events and errors received from elements for error management
 - Easy Web based scheduling and ad hoc videoconferencing
 - Complete Microsoft[®] and IBM[®] Lotus[®] integration
- Physical Dimensions**
 - 19-inch, rack-mountable closed unit of 1U height (4.5 cm)
- 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 100-240 VAC Autodetect 50/60Hz
- Warranty**
 - One year return-to-factory
 - Extended warranties and support services are available on request

AETHRA MCU+ SERIES SPECIFICATIONS

| | AETHRA MCU 12+ 12/24 port MCU | AETHRA MCU 24+ 24/48 port MCU |
|--|----------------------------------|----------------------------------|
| Video Participants @ CP HD | 4 | 16 |
| Video Participants @ VA HD | 12 | 24 |
| Video Participants @ CP | 12 | 24 |
| Desktop Participants up to 384Kbps | 24 | 48 |
| Additional Streaming Users | 72 | 144 |
| Audio Participants | 72 | 72 |
| AeDS Management ports (Gatekeeper, Scheduler, Network Manager) | 25 | 50 |

- Notes:**
- Capacity is limited to 48 ports
 - When using encryption video capacity is unaffected for calls up to 768Kbps and drops by 50% for calls at higher rates
 - Aethra Desktop software is included with the product and requires installation on an external standard PC server
 - AeDS software is included with the product and requires installation on an external standard PC server

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