

aethra gateway

Videoconference Infrastructure



High quality communications

Delivering voice, video and data streams using advanced DSP technologies

Intelligent management of communication

Ensuring optimal utilization of available resources and services

Intuitive and easy-to-use

Centralized management and global view of full system statistics



Aethra gateways are highly compatible and interoperable with standards compliant gatekeepers, terminals, and MCUs. They enable connectivity between all videoconferencing systems into a single, unified conferencing network, independent of the protocols or devices used at end sites.

Enterprise Gateway Application

Aethra gateways enable Enterprises to cost-effectively connect to remote locations, such as branch offices or partner sites while offering a scalable solution to allow rich media connectivity throughout the organization's entire supply chain.

Highly Scalable and Distributed Solutions

The Aethra gateways family offers flexible, scalable connectivity, distributed or centralized, that can grow in accordance with the needs of the Enterprises to ensure right-sized capacity.

Interoperability between networks

The Aethra gateways are an ideal solution for connecting IP videoconferencing networks with ISDN endpoints and networks to fully utilize existing videoconferencing infrastructure investments.

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Technical Specifications



Network protocols

- H.323 over IP
- H.320 over ISDN
- H.243 Conference Control

Video Protocols

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

Video Resolution

- QCIF, CIF, 4CIF, 16CIF, 448p, 480p, 576p, 720p

Audio Protocols

- G.711
- G.722
- G.722.1
- G.723.1
- G.728

Audio Transcoding

- G.728<>G.711
- G.711<>G.723

Data Protocols

- T.120
- T.140
- T.281 FECC
- TANDBERG DuoVideo
- H.239

Line Echo Cancellation

Call Bonding

- ISDN call bonding of up to 2 Mb (E1)
- 1.5 Mb (T1) on PRI connections
- 512 kbps for BRI
- Downspeeding support

Management

- SNMP
- Embedded Web Server

Call Routing

- Built-in Interactive Voice Response (IVR)
- Direct Inward Dialing (DID)
- TCS4
- Default extension for operator assistance
- Flexible/configurable IP dial plan

Security

- AES Encryption¹ - H.233, H.234, H.235
- HTTPS web server

Network and Reliability Support

- Dynamic routing of IP calls to neighbouring Gateways based on resource availability
- Downspeeding support
- Network optimization for high call completion
- H.320 line related auto registration
- Network Specific Facility (NSF)
- QoS support with DiffServe, IP TOS and Precedence
- Advanced IP packet handling ensuring high quality communications
- Fast connect for voice calls
- Redirect (PRI) in ISDN-to-IP calls, the Gateway will forward to the destination IP terminal caller ID and redirecting endpoint details

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 Auto detect 50/60Hz

Warranty

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

AETHRA GATEWAYS SERIES SPECIFICATIONS

	AETHRA GATEWAY-P20	AETHRA GATEWAY-B40
Interfaces	2 ISDN PRI T1/E1	4 ISDN BRI
Max System Capacity E1¹	60 voice calls	8 voice calls
	30 video calls @ 128 kbps	4 video calls @ 128 kbps
	10 video calls @ 384 kbps	2 video calls @ 256 kbps
	4 video calls @ 768 kbps	1 video calls @ 384 kbps
	2 video calls @ full E1	1 video calls @ 512 kbps
Max System Capacity T1¹	46 voice calls	
	23 video calls @ 128 kbps	
	7 video calls @ 384 kbps	
	3 video calls @ 768 kbps	
	2 video calls @ full T1	

Notes:

- 1 Port capacity when using encryption are reduced by half. This does not apply to the B40 Gateways.

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