

# Cisco TelePresence Advanced Media Gateway 3610

**Figure 1.** Cisco TelePresence Advanced Media Gateway 3610



The Cisco TelePresence® portfolio creates an immersive, face-to-face experience over the network, empowering you to collaborate with others like never before. Through a powerful combination of technologies and design that allows you and remote participants to feel as if you are all in the same room, the Cisco TelePresence portfolio has the potential to provide great productivity benefits and transform your business. Many organizations are already using it to control costs, make decisions faster, improve customer intimacy, scale scarce resources, and speed products to market.

## Product Overview

The Cisco TelePresence Advanced Media Gateway 3610 (Cisco® AM GW 3610) is a high-definition (HD) media gateway that enables businesses to get better value from their existing video and collaboration infrastructure. Combined with the Cisco TelePresence Video Communication Server (Cisco VCS), the Cisco AM GW 3610 is the first and most comprehensive network-centric solution that enables true HD communication between Microsoft Office Communications Server 2007 R2 and Microsoft Lync Server users and standards-based telepresence and video conferencing devices. Individuals and teams can now use familiar business tools to collaborate in high definition across the enterprise (Figures 1 and 2).

**Figure 2.** Comparison Without and With Cisco AM GW 3610



## Cisco TelePresence Advanced Media Gateway 3610

Table 1 lists the features and benefits of the Cisco TelePresence Advanced Media Gateway 3610, and Table 2 gives information about the number of calls possible with the gateway.

**Table 1.** Feature Summary

Feature	Benefit
<b>Design features</b>	<ul style="list-style-type: none"> <li>• Cisco AM GW 3610 is compatible with Microsoft Office Communications (MOC) Server 2007 R2 and Microsoft Lync Server</li> <li>• Cisco AM GW 3610 is compatible with all standards-compliant video conferencing and telepresence devices</li> <li>• Cisco AM GW 3610 has an easy-to-use, versatile management interface</li> <li>• Cisco AM GW 3610 offers comprehensive wideband audio support</li> <li>• Cisco TelePresence ClearVision technology (ClearVision) enhances resolutions by up to 4 times, enabling less-powerful PCs and video conferencing endpoints to participate in calls at higher definitions</li> <li>• The unit is compact - it is 2 rack units (2RU) tall and 19-inch rack-mountable</li> </ul>
<b>Application features</b>	<ul style="list-style-type: none"> <li>• Cisco TelePresence Universal Port technology helps ensure that each participant receives the best possible experience</li> <li>• Cisco AM GW 3610 offers full transcoding for every call</li> <li>• Large enterprises can increase their available capacity by stacking multiple Cisco AM GW 3610 units</li> <li>• The gateway connects to all standards-based video conferencing devices, including endpoints, multipoint control units (MCUs), recording and streaming servers, and telepresence servers</li> </ul>
<b>Performance features</b>	<ul style="list-style-type: none"> <li>• Up to 10 simultaneous HD calls</li> <li>• Up to 20 simultaneous VGA calls</li> <li>• Constant high capacity in selected HD or VGA mode</li> <li>• Transcoding and transrating on all calls</li> <li>• Video resolution up to HD 720p at 30 frames per second (fps)</li> <li>• Content sharing to MOC and Lync at up to 720p at 30fps</li> </ul>

**Table 2.** Number of Calls Possible

Model	Total Calls in HD Mode	Total Calls in VGA Mode
<b>Cisco AM GW 3610</b>	10	20

**Note:** High bandwidth or any combination of supported video and audio codecs does not reduce the number of video calls supported.

**Note:** Capabilities offered by the Cisco TelePresence Advanced Media Gateway are available only when the gateway is deployed in conjunction with a Cisco VCS or Cisco VCS cluster, Cisco VCS Release X5.1.1 or later is required, although VCS does not support MOC Server 2007 R2 from 8.1 onwards.

## Product Capabilities

Table 3 lists specifications for Cisco AM GW 3610.

**Table 3.** Product Specifications

Specification	Description
<b>Video devices supported</b>	<ul style="list-style-type: none"> <li>• Microsoft Office Communicator 2007 R2 clients</li> <li>• Microsoft Lync clients</li> <li>• Communicator for Mac 2011 clients</li> <li>• H.323 video devices</li> <li>• Session Initiation Protocol (SIP) video devices</li> <li>• Supported devices: Endpoints, MCUs, gateways, and recording and streaming devices</li> </ul>
<b>Video standards</b>	<ul style="list-style-type: none"> <li>• RT Video, H.261, H.263, H.263+, and H.264</li> </ul>

Specification	Description
<b>Video resolution for video conferencing devices</b>	<ul style="list-style-type: none"> <li>• From QCIF to 720p (1280 x 720)</li> <li>• 4:3 and 16:9 aspect ratios</li> </ul>
<b>Video resolution for Microsoft Office Communicator and Lync</b>	<ul style="list-style-type: none"> <li>• CIF, VGA, and 720p</li> </ul>
<b>Frame rates</b>	<ul style="list-style-type: none"> <li>• Up to 30 fps</li> </ul>
<b>Audio standards</b>	<ul style="list-style-type: none"> <li>• G.711, G.722, G.723.1, G.728, G.729, MPEG-4 AAC-LC, MPEG-4 AAC-LD, Polycom Siren7/G722.1, Polycom Siren14, and G.722.1 Annex C</li> </ul>
<b>Protocols</b>	<ul style="list-style-type: none"> <li>• SIP, FTP, Real-Time Transport Protocol (RTP), HTTP, Dynamic Host Configuration Protocol (DHCP), Simple Network Management Protocol (SNMP), and Network Time Protocol (NTP)</li> </ul>
<b>Bandwidth</b>	<ul style="list-style-type: none"> <li>• Maximum bandwidth: up to 2 Mbps per call</li> </ul>
<b>Universal transcoding and transrating</b>	<ul style="list-style-type: none"> <li>• Automatic audio and video transcoding and transrating is possible on all calls up to 720p</li> <li>• Callers have their own personal encoding; each caller can independently use any bandwidth, any resolution (up to maximum selected), and any video or audio codec</li> </ul>
<b>Scalability</b>	<ul style="list-style-type: none"> <li>• Up to 6 advanced media gateways can be deployed per Cisco VCS or Cisco VCS cluster, enabling a total of 60 simultaneous HD720p calls</li> </ul>
<b>Firewall traversal</b>	<ul style="list-style-type: none"> <li>• H.460 18 and 19 compliant</li> </ul>
<b>Dual-tone multifrequency (DTMF) translation</b>	<ul style="list-style-type: none"> <li>• Out-of-band to in-band DTMF</li> </ul>
<b>Web user interface</b>	<ul style="list-style-type: none"> <li>• Complete configuration, control, and monitoring of the system and calls</li> </ul>
<b>System management</b>	<ul style="list-style-type: none"> <li>• Management through embedded web server</li> <li>• RS-232 for local control and diagnostics</li> <li>• Syslog for diagnostics</li> <li>• Configurable event logs and full H.323 and SIP decoding</li> <li>• Configuration backup to network</li> <li>• Secure upgrades through Ethernet</li> </ul>
<b>Quality of service (QoS)</b>	<ul style="list-style-type: none"> <li>• Configurable differentiated services code point (DSCP) or type of service (ToS) and IP precedence</li> </ul>
<b>ClearVision technology</b>	<ul style="list-style-type: none"> <li>• Supported in HD mode to scale up video resolution by up to 4 times</li> </ul>
<b>Security features</b>	<ul style="list-style-type: none"> <li>• End-to-end encryption of calls</li> <li>• Secure non-PC hardware and operating system</li> <li>• Full transcoding for every call, avoiding IP packet forwarding</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• RJ-45 Ethernet, 10/100/1000 Mbps full and half duplex, manual or autosensing</li> <li>• RJ-45 serial port</li> </ul>
<b>Environmental data</b>	<ul style="list-style-type: none"> <li>• Ambient operating temperature: 32 to 95°F (0 to 35° C)</li> <li>• Relative humidity: Below 95% (noncondensing)</li> </ul>
<b>Physical dimensions (H x W x D)</b>	<ul style="list-style-type: none"> <li>• 3.43 x 17.25 x 19.1 in. (87 x 436 x 511 mm) (2RU)</li> <li>• Weight: 22 lb (15 kg)</li> <li>• 19-in. rack-mountable (kit supplied) or standalone</li> <li>• Power: 100 to 240 VAC, 50 or 60 Hz</li> <li>• Maximum power consumption: 650W</li> </ul>

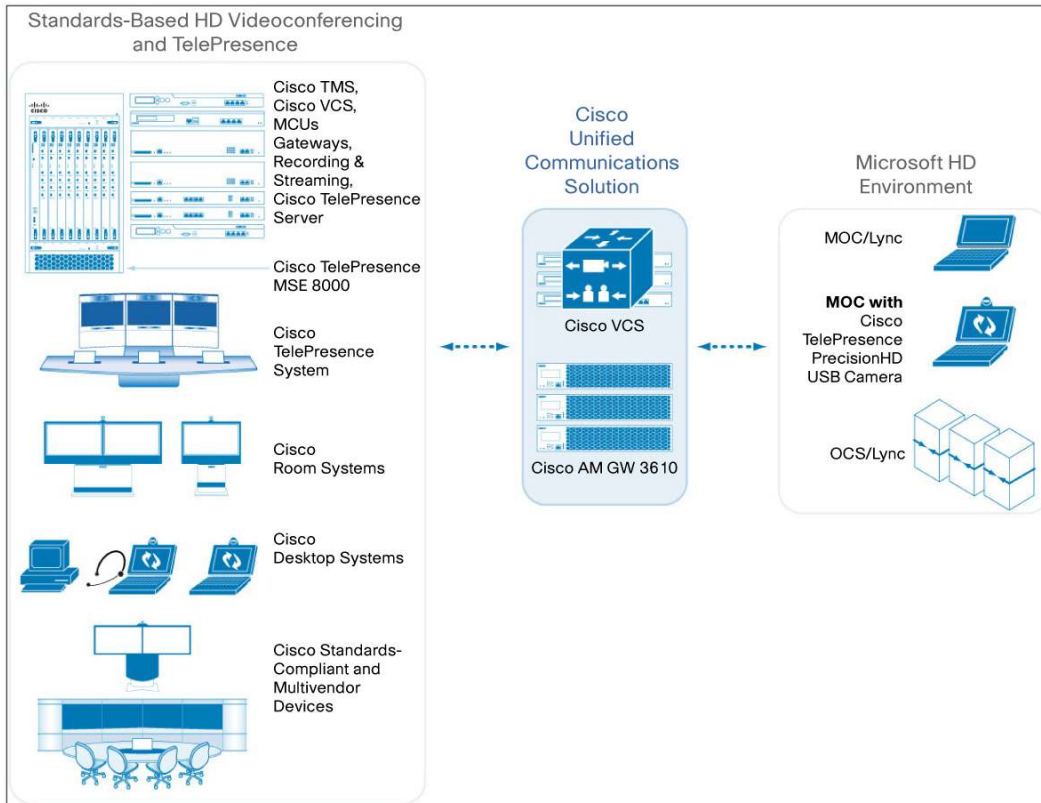
**Note:** Product specifications are estimates and subject to change without notice.

## Regulatory Compliance

- Product model number TR1A
- European safety: EN 60950-1:2001
- USA safety: UL 60950-1 First Edition
- Canada safety: CSA 60950-1-03
- CB Scheme certificate, CE Marked

- Compliance Model Number: TR1A
- EMC:EN55022 class A, EN61000-3-2 and EN61000-3-3,EN55024:
  - EN61000-4-2, -3, -4, -5, -6, -11, FCC Part 15 class A, VCCI class A, and AS/NZS 3548 (C-Tick)
- RoHS compliant

**Figure 3.** Cisco and Microsoft Solutions



## Ordering Information

To place an order, visit the [Cisco Ordering homepage](#) or contact your Cisco sales representative. To download software, visit the [Cisco Software Center](#). Table 4 lists ordering information.

**Table 4.** Ordering Information

Product Name	Part Number
Cisco TelePresence Advanced Media Gateway 3610	CTI-3610-GWAM-K9

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## Service and Support

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you achieve the full value of your Cisco TelePresence investment by increasing business agility and network availability. This portfolio of services accelerates business innovation through a network-based collaboration platform that enables businesses to collaborate anywhere, at any time. For more information about these services, please visit <http://www.cisco.com/go/telepresenceservices>.

## For More Information

For more information about the Cisco TelePresence Advanced Media Gateway 3610, visit <http://www.cisco.com/go/telepresence> or contact your local Cisco account representative or authorized Cisco partner.



TelePresence Video Master ATP



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