

# Cisco TelePresence Serial GW MSE 8330

**Figure 1.** Cisco TelePresence Serial GW MSE 8330



## Product Overview

The Cisco TelePresence<sup>®</sup> Serial GW MSE 8330 blade is part of the industry-leading Cisco TelePresence MSE 8000 Series chassis-based video conferencing solution (Figure 1). It allows transparent integration between IP and serial video conferencing networks. Highly scalable, with feature transparency plus powerful dial-plan capabilities, it allows organizations using networks attached through serial interfaces to gain all the benefits from IP-based high-definition (HD) video conferencing solutions.

## Features and Benefits

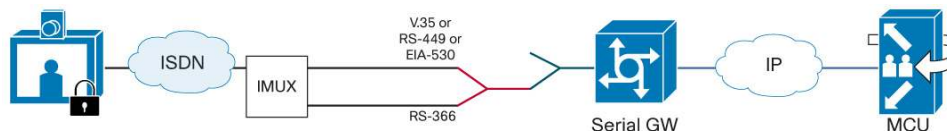
Table 1 summarizes the key features of the Cisco TelePresence Serial GW MSE 8330 blade, and Figure 2 shows an example of secure serial connectivity to a video conferencing multipoint control unit (MCU).

**Table 1.** Cisco TelePresence Serial GW MSE 8330 Feature Summary

Feature	Benefit
<b>Design features</b>	<ul style="list-style-type: none"> <li>Standards-based and compatible with all major vendors' IP video endpoints and MCUs</li> <li>Pay as you grow - buy the capacity you need now and upgrade in the future with a software license</li> <li>Easily configurable unit</li> <li>Comprehensive remote web management</li> <li>16 independently clocked ports</li> <li>Support for V.35, RS-449, and EIA-530 synchronous serial data interfaces and RS-366 dialing</li> </ul>
<b>Application features</b>	<ul style="list-style-type: none"> <li>Provides transparent integration between IP and serial devices</li> <li>Supports external serial encryption devices, including Loss of Synchronization (LOS) support</li> <li>Supports H.239 for content sharing</li> <li>Offers powerful dial plans to ensure that your calls get routed efficiently</li> <li>Fully integrated, with built-in gatekeeper</li> <li>Supports automatic load balancing in multiple gateway environments</li> </ul>

Feature	Benefit
Performance features	<ul style="list-style-type: none"> <li>• Offers video resolutions up to HD 720p at 30 fps</li> <li>• Supports up to 16 serial ports in a single blade</li> <li>• Enables up to 144 serial ports in a single chassis</li> <li>• Supports up to 16 video calls at 1920 kbps each, per blade</li> <li>• Supports bandwidth per call from 56 to 1920 kbps</li> </ul>

**Figure 2.** Example of Serial Connectivity to a Video Conferencing MCU



## Product Specifications

Table 2 lists the core gateway specification; Table 3 gives video and audio specifications; Table 4 gives network, security, and management specifications; and Table 5 lists the physical specifications for the Cisco TelePresence Serial GW MSE 8330.



**Table 2.** Core Gateway Specifications

Endpoints and serial devices supported	<ul style="list-style-type: none"> <li>• H.323 IP video endpoints</li> <li>• Synchronous serial interface devices</li> </ul>
Serial interfaces supported	<ul style="list-style-type: none"> <li>• V.35, RS-449, and EIA-530 (data terminal equipment [DTE] mode)</li> </ul>
Serial dialing interface	<ul style="list-style-type: none"> <li>• RS-366</li> </ul>
Presentation and data collaboration	<ul style="list-style-type: none"> <li>• Data from H.239 (dual video)-capable endpoints</li> </ul>
Call routing from serial network	<ul style="list-style-type: none"> <li>• Interactive voice response (IVR)/auto attendant</li> <li>• Default (operator) extension</li> <li>• Call routing to MCU (Multipoint Control Unit or bridge)</li> <li>• Flexible dial plan</li> <li>• TCS-4 support (Terminal Command String for extension address)</li> </ul>
Call routing from IP (H.323)	<ul style="list-style-type: none"> <li>• IVR/auto attendant</li> <li>• Dial by E.164 address</li> <li>• Dialed number digit manipulation</li> <li>• Flexible dial plan</li> <li>• Dial from MCU with and without a gatekeeper</li> </ul>
Embedded web server	<ul style="list-style-type: none"> <li>• Complete configuration, control, and monitoring of the system</li> </ul>
Built-in gatekeeper	<ul style="list-style-type: none"> <li>• Resolution of E.164 numbers</li> <li>• Registration of endpoints and gateways</li> <li>• Ability for up to 25 devices to register</li> </ul>
Embedded encryption	<ul style="list-style-type: none"> <li>• Standards based on Advanced Encryption Standard (AES) 128-bit key</li> <li>• Automatic key generation and exchange</li> <li>• Transparent encryption</li> </ul>
Software License	<ul style="list-style-type: none"> <li>• Serial port licenses required in Cisco TelePresence MSE 8000 chassis to enable serial interface ports</li> </ul>

**Table 3.** Video and Audio Specifications

Bandwidth	<ul style="list-style-type: none"> <li>• Serial and H.323 calls supported up to 1920 kbps</li> </ul>
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	<ul style="list-style-type: none"> <li>• Total bandwidth and number of sites supported limited only by serial capacity</li> </ul>
<b>Video standards</b>	<ul style="list-style-type: none"> <li>• H.261, H.263, H.263+, and H.264</li> </ul>
<b>Video resolution</b>	<ul style="list-style-type: none"> <li>• QCIF, QSIF, CIF, SIF, iCIF, iSIF, 288p, 384p, 400p, 448p, VGA, 4CIF, 4SIF, 480p, SVGA, 576p, XGA, and 720p</li> </ul>
<b>Frame rates</b>	<ul style="list-style-type: none"> <li>• Up to 30 frames per second and 60 fields per second</li> </ul>
<b>Audio standards</b>	<ul style="list-style-type: none"> <li>• G.711, G.722, G.728, and G.722.1 Annex C</li> </ul>
<b>Other standards</b>	<ul style="list-style-type: none"> <li>• H.323, H.320 (serial), H.233, H.234, H.235 (AES), H.239 (dual video), FTP, Real-Time Transport Protocol (RTP), HTTP, Secure HTTP (HTTPS), Dynamic Host Configuration Protocol (DHCP), Simple Network Management Protocol (SNMP), and Network Time Protocol (NTP)</li> </ul>

**Table 4.** Network, Security, and Management Specifications

<b>Protocols</b>	<ul style="list-style-type: none"> <li>• IPv4</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)/IP Precedence</li> <li>• H.323 flow control</li> <li>• Dynamic jitter buffers</li> </ul>
<b>Security features</b>	<ul style="list-style-type: none"> <li>• Two levels of access rights and privileges for users</li> <li>• Strong password policy</li> <li>• Secure management with HTTPS</li> <li>• Dial-plan system that controls which destinations are reachable</li> <li>• Ability to disable some services: HTTP, HTTPS, FTP, H.323, SNMP, and H.323 GK</li> <li>• H.235 authentication for gatekeeper registration</li> <li>• Secure non-PC hardware and operating system</li> <li>• AES encryption, 128-bit key, H.233, H.234, and H.235</li> <li>• Transport Layer Security (TLS) certificate verification</li> <li>• Second Ethernet port</li> <li>• Audit log</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>• Up to 16 serial ports/8 physical connections: <ul style="list-style-type: none"> <li>◦ 8 x 68 pin serial connectors: Compatible with Cisco TelePresence Serial GW MSE 8330 Y-cable (one 68-pin connector to two 26-pin connectors); separate cables available to go from 26-pin to V.35, RS-449, or RS-530</li> </ul> </li> <li>• Two RJ-45 Ethernet, 10-/100-/1000-Mbps full or half duplex, manual or auto sensing</li> <li>• RJ-45 serial port</li> <li>• CompactFlash socket</li> <li>• Up to 62 status LEDs</li> </ul>
<b>System management</b>	<ul style="list-style-type: none"> <li>• Management through embedded web server</li> <li>• XML application programming interface (API)</li> <li>• RS-232 for local control and diagnostics</li> <li>• Syslog for diagnostics</li> <li>• Configurable event logs and full H.323 decoding</li> <li>• Configuration backup to network</li> <li>• Secure upgrades through Ethernet or CompactFlash</li> <li>• Call detail records (CDRs) downloadable as XML</li> <li>• SNMP</li> </ul>

**Table 5.** Physical Specifications

<b>Chassis physical dimensions (H x W x D)</b>	<ul style="list-style-type: none"><li>Physical dimensions: 33.25 x 17.2 x 20.5 in. (842 x 437 x 520 mm) (19 rack units [19RUs])</li><li>19-in. rack-mountable (kit supplied)</li></ul>
<b>Weight</b>	<ul style="list-style-type: none"><li>10.8 lb (4.9 kg)</li></ul>
<b>Power</b>	<ul style="list-style-type: none"><li>Power-48 VDC, 100-240 VAC, 50/60 Hz</li></ul>
<b>Environmental data</b>	<ul style="list-style-type: none"><li>Operating temperature: 32 to 95°F (0 to 35°C) ambient</li><li>Relative humidity below 95% (noncondensing)</li></ul>
<b>Approvals and compliance</b>	<ul style="list-style-type: none"><li>European safety: EN 60950-1:2001</li><li>USA safety: UL 60950-1 First Edition</li><li>Canada safety: CSA 60950-1-03</li><li>CE Marked</li><li>EMC:<ul style="list-style-type: none"><li>EN55022 class A</li><li>EN61000-3-2, EN61000-3-3</li><li>EN55024: EN61000-4-2, -3, -4, -5, -6, -11</li><li>FCC Part 15 class A</li><li>VCCI class A</li><li>AS/NZS 3548 (C-Tick)</li></ul></li><li>RoHS compliant</li></ul>

## Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

## Ordering Information

To place an order, visit the [Cisco Ordering Home Page](#) and refer to Table 6 or contact your local Cisco representative. To download software, visit the [Cisco Software Center](#).

**Table 6.** Ordering Information

Product Name	Part Number
<b>Cisco TelePresence MSE 8000 Chassis</b>	CTI-8000-MSECH-K9 (CTI-8330-GWS-K9 option and LIC-8330-4PL option)
<b>Upgrades and Spares</b>	
<b>Cisco TelePresence Serial GW MSE 8330 blade</b>	CTI-8330-GWS-K9=
<b>Cisco TelePresence Serial GW Y Cable to 2 DB26 connectors</b>	CTI-GWS-CAB-2DB26=
<b>Cisco TelePresence Serial GW 16 DB26 Rack Mount Bracket Kit</b>	CTI-GWS-16DB-BRK=
<b>Chassis L-licenses - port license option</b>	L-8000-CHLIC-PAK (L-8330-4PL option)
<b>Encryption upgrade for blade</b>	L-AESCDN7-K9= (Except in Russia)
<b>Encryption upgrade for blade</b>	LIC-AESCDN7-K9= (Russia only)

## Cisco Services

Cisco and our partners provide a broad portfolio of intelligent, personalized services and support that can help you realize 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, anytime. For more information about these services, please visit: <http://www.cisco.com/go/telepresenceservices>.

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## For More Information

For more information about the Cisco TelePresence Serial GW MSE 8330, please visit <http://www.cisco.com/go/telepresence> or contact your local Cisco account representative or authorized Cisco partner. Product specifications are estimates and subject to change without notice.



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