



## FACT SHEET

# Avaya G860 Media Gateway

## High-density Trunking Gateway for Avaya IP Communications Networks

The Avaya G860 Media Gateway is a DS3-capable, high channel density, standards-compliant VoIP media gateway system. It is a robust, scalable and modular solution, designed for a large campus or a large call center with demands for high availability and reliability. To support high availability, the Avaya G860 Media Gateway features automatic protection switching and full redundancy of all common equipment. The compact size of the G860 allows for a much smaller footprint in enterprise data centers where space is at a premium.



### Features

- Supports up to 5000 Voice Channels in Avaya Communication Manager configurations
- Supports multiple DS3s
- Redundant common equipment (Power, Controller, Ethernet switch)
- Optional N+1 protection of media gateway boards
- Scalable density options
- Open, scalable SIP-based architecture
- Compact, 5U footprint
- NEBS Level 3 Compliant (DC version)

### Benefits

- High capacity, cost-effective IP telephony trunking
- Reduced equipment price (multiple Media Gateways vs. a single G860 for high trunk density)
- Reduction in carrier access charges (T3 vs multiple T1s)
- SIP support for interoperability with wide range of communications applications
- Carrier-grade reliability with multiple levels of redundancy
- Small size requires less space in data center, less power, less cooling

### Technical Specifications

Functions	Specifications
Capacities	<ul style="list-style-type: none"><li>• Up to 5000 voice channels in Avaya Communication Manager configuration</li><li>• Up to 4 T3: Redundant, 3+1 Media Gateway board configuration</li></ul>
Signaling	<ul style="list-style-type: none"><li>• DTMF/MF RTP Relay per RFC 2833</li><li>• IP Transport: VoIP (RTP/ RTCP) per IETF RFC 3550 and RFC 3551</li><li>• SIP Functions: User Agent Client (UAC), User Agent Server (UAS)</li><li>• SIP Methods: INVITE, ACK, BYE, CANCEL, REGISTER, REFER, NOTIFY, INFO, OPTIONS, PRACK, UPDATE</li><li>• SIP Transport: UDP, TCP, TLS</li><li>• SIP Security: IPSec and IKE (RFC 3711) of Control and O&amp;M protocols</li></ul>
Voice Processing	<ul style="list-style-type: none"><li>• All voice processing features are supported simultaneously on all ports</li><li>• Dynamic jitter buffer with reordered RTP packets correction</li><li>• Transcoding of a G.711 RTP stream to any low bit rate coder RTP stream using one DSP channel resource</li><li>• Voice Coders: G.711 Voice C</li><li>• Echo Cancellation: G.165 and G.168 2000 compliant 32, 64, 128 msec echo tail</li><li>• Gain Control: Configurable Input/Output gain Control: ~31dB to +31 dB in steps of 1 dB</li></ul>
IP Interfaces	<ul style="list-style-type: none"><li>• Different Local IP Addresses and Subnet masks for Operation Administration &amp; Maintenance (OAM), Control and Media Protocols</li><li>• Configurable Static Route Tables</li><li>• IEEE 802.1q VLAN tags for OAM, Control and Media Protocols</li><li>• Link aggregation group per IEEE 802.3ad</li><li>• Configurable IEEE 802.1p routing and marking capabilities for Network, Premium Control, Premium Media, Gold and Bronze QoS classes</li><li>• Configurable marking capabilities for Network, Premium Control, Premium Media, Gold and Bronze QoS classes</li></ul>

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<b>Security</b>	<ul style="list-style-type: none"> <li>• IPSec with IKE is supported for management traffic</li> <li>• Filtering Firewall for Media Gateway boards</li> <li>• Access Control Lists to protect control interfaces</li> <li>• SSH to secure Telnet and SFTP Server</li> <li>• SSL to secure Media Gateway boards web server</li> </ul>
<b>Maintenance</b>	<ul style="list-style-type: none"> <li>• Element Management System, SNMP v2</li> <li>• OAM single point of access via System Controller</li> <li>• Redundancy: CPUs, Ethernet Switches: Active/Standby; Power Supplies/Fans: Load Shared; Media Gateway boards: N+1</li> </ul>
<b>Physical Interfaces</b>	<ul style="list-style-type: none"> <li>• Per TPM board: Single T3 (DS3) ports using unshielded SMB connectors</li> <li>• Per ES board: OAM is 100Base-T; Control is 100Base-T; Media is 3 aggregated 1000Base-T. All use RJ-45 connector.</li> </ul>
<b>Hardware</b>	<ul style="list-style-type: none"> <li>• Dimensions: 222x483x311 mm (8.7x19x12.3 in)</li> <li>• Enclosure: 10 slot 5U cPCI chassis</li> <li>• Weight: 27 lbs (12.3 kg) unloaded; 45.1 lbs (20.45 kg) fully-loaded</li> <li>• Mounting: Per EIA Standard RS-310-C in 19 inch rack</li> <li>• Midplane: PICMG 2.16 cPCI Packet Switching Backplane (cPSB) <ul style="list-style-type: none"> <li>—PICMG 2.1 cPCI hot swap specification</li> <li>—PICMG 2.0 cPCI specification</li> </ul> </li> <li>• Power: -48V DC Feed, with 3 DC Power modules or 100-240 V AC with 3 AC Power Modules</li> <li>• Fans: Replaceable fan trays and filters</li> </ul>
<b>Regulatory Compliance</b>	<ul style="list-style-type: none"> <li>• Telecommunications: FCC part 68, TBR4 and TBR13</li> <li>• Safety and EMC: UL 60950, FCC part 15 Class A, CE Mark (EN 55022 Class A, EN 60950, EN 55024, EN 300386)</li> <li>• Environmental : NEBS Level 3: GR - 63-Core, GR -1089-Core Type 1 &amp; 3,</li> <li>• ETS 300 019</li> </ul>

## Learn More

For more information about how Avaya G860 Media Gateway can support your business, please contact an Avaya Representative, Avaya Authorized BusinessPartner or visit us on [avaya.com](http://avaya.com).

### About Avaya

Avaya enables businesses to achieve superior results by designing, building and managing their communications infrastructure and solutions. For over one million businesses worldwide, including more than 90 percent of the FORTUNE 500®, Avaya embedded solutions help businesses enhance value, improve productivity and create competitive advantage by allowing people to be more productive and create more intelligent processes that satisfy customers.

For businesses large and small, Avaya is a world leader in secure, reliable IP telephony systems, communications applications and full life-cycle services. Driving the convergence of embedded voice and data communications with business applications, Avaya is distinguished by its combination of comprehensive, world-class products and services. Avaya helps customers across the globe leverage existing and new networks to achieve superior business results.

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