

Avaya G430 Media Gateway

The Avaya G430 Media Gateway provides a cost effective, scalable and secure platform for delivery of Avaya Aura® Communication Manager-based IP telephony applications. It is targeted to small to midsize branch offices and medium size standalone businesses. Like other Avaya Media Gateways, it can be configured to extend Communication Manager features and applications to branch offices at the edge of the enterprise network.

Product Details

The Avaya G430 Media Gateway consists of a 1.5U high, 19" rack mountable chassis with DSP resources and memory. It has three Media Module slots that host a combination of interface boards to support T1/E1, ISDN-BRI, digital or analog telephones and analog trunks. The first Media Module slot can also host an S8300 Server to provide integrated IP Telephony for standalone businesses or mission-critical survivability for branch office-deployed G430s.

Important G430 capabilities include:

Built-in interfaces include two 10/100 Base-T LAN ports, one 10/100 Base-T WAN port, two USB ports, services port, Contact closure adjunct port, Compact Flash slot for additional announcements storage.

DSP Resources are available as fixed 25 channels for G.711/G.726 and 20 channels for G.729 on the G430. In addition a daughterboard can be added. The daughterboard can be implemented in 10,

20 or 80 channel. The maximum capacity is 105 G.711/G.726 or 100 G.729 channels.

Rich Survivability features The G430 supports standard Local Survivability *and* Enhanced Local Survivability (LSP with S8300 Server)

Basic routing capabilities including OSPF, RIP, and VRRP support. The G430 can also connect to an external WAN device via fixed 10/100 Ethernet WAN router port, which support traffic shaping to match data transfer rates with available WAN bandwidth.

Enhanced Quality of Service including Dynamic Call Admission Control for improved bandwidth utilization and Respond Time Report for better WAN monitoring.

Advanced Security including VPN support, SRTP encryption, SSH/SCP, SNMP v3 support, secrets management.



Features and Benefits

• Cost Effective Scalability

The G430 is a scalable platform. Additional slots and/or DSP resources can be added to accommodate the needs of a growing branch. Slots are added with the EM200. DSP channels can be added to the G430 as needed.

• Resiliency

The G430 delivers a variety of voice survivability options to help ensure that the branch can continue to function effectively in the event of network outages. By using an S8300 Server in Local Survivable Processor (LSP) mode, full-featured IP telephony is restored quickly when the WAN link between the main Server and the remote G430 is broken. Even without the LSP, the G430 supports Standard Local Survivability, where basic telephony features are available when the WAN link fails. In addition features such as Modem dial back up and RTR help to maintain the connectivity to the main site.

• Enhanced Security protects Sensitive Information

The G430 helps to encrypt voice traffic and signaling over the IP network to prevent eavesdropping. In addition, the G430 supports advanced security features such as comprehensive secrets management, SSH/SCP and SNMP v3 so network managers can securely configure and manage the G430.

• Branch Standardization

The G430 design and cost-effectiveness enables branch standardization. The G430 can be deployed everywhere in the small and mid-sized branches while vary in the number of slots or DSP resources.



Specifications

Physical

- Dimensions (H x W X D) : 2.62 in. (66.5 mm) x 19 in. (482.6 mm) x 12.8 in. (325 mm)
- Weight of empty chassis: less than 5kg
- Power: 90V-264V AC, 48-62 Hz

Environmental

- Operating Temperature: +0°C to +40°C
- Humidity: 10%-90% relative humidity, non-condensing
- Front clearance: 30 cm
- Rear clearance: 45 cm
- Operating Altitude: up to 3000 m

G430 interfaces

- 2 10/100 Base T LAN ports
- 1 10/100 Base T WAN ports
- 2 USB ports
- Services port for services and maintenance access
- Contact closure adjunct port

Media Module Slots

- 7 media module slots (G430+ 2 EM200), supporting up to 7 telephony media modules, 1 S8300 Server

Media Modules

- MM711 8 port Analog Media Module
- MM714 4 trunk + 4 telephone Analog Media Module
- MM714B 4 trunk + 4 telephone Analog with ETR Media Module



- MM716 24 port Analog Media Module
 - MM712 8 port DCP Media Module
 - MM717 24 port DCP Media Module
 - MM710 1 port T1/E1 Media Module
 - MM720 8 port BRI Media Module
 - MM722 2 port BRI Media Module
 - Maximum DCP/Analog endpoints: 152
 - Maximum IP Telephones: 150 (w/S8300 Server)
 - Maximum BRI Telephones: 112
 - Maximum BRI Trunks: 56
 - Maximum T1/E1 to IP Trunks: 4T1/3E1 (limited by DSP resources)
 - Maximum T1/E1 for Tandem Switching: 7T1/E1
 - Maximum G430s per External Avaya Server: 250
 - Maximum G430s per S8300 Server: 50
- ### Capacities
- Busy Hour Call Completions: 2400
 - Chassis slot count: 7 Media Module Slots (with 2 EM200)
 - DSP Channels: Codec dependant; 25 G.711/G.726 or 20 G.729 on the G430; scale to 105 G.711/G.726 or 100 G.729
 - Touch Tone Receivers: 32
 - Announcements: 15 Playback; 1 Record
 - Announcement and MOH Storage: 45 Minutes/ 4 hours with memory upgrade kit
- ### Telephone Compatibility
- Avaya 4600, 9600 and 1600 Series IP Telephones
 - Avaya 2400, 6400 and 8400 Series Digital Telephones
 - Avaya or other analog telephones

Server/Application Options

- Avaya S8300 Server running as either a Local Survivable Processor (LSP) or Primary Call Controller
- Communication Manager Messaging Application (on S8300)

Routing/Switching Features

- OSPF, RIP, PPPoE, VRRP
- RTP Header Compression
- Dynamic Call Admission Control
- WFVQ (Weighted Fair Voice Queuing)
- Traffic shaping
- 802.1p/q VLAN tagging
- Inter-VLAN routing
- Port redundancy

- 802.1d/802.1w Spanning Tree/Rapid Spanning Tree support
- IPv6
- IP Clock Sync Support

Agency/Type Approvals

- FCC part 15 and 68, CE Mark, A Tick Mark, China CCC and MII, Japan Telecom, BSMI, VCCI, Canadian ICES-003, UL, GOST, Russian Telecom Ministry, NOM NYCE, COFETEL, ANATEL

Requirements

The Avaya G430 Media Gateway requires Avaya Aura Communication Manager 5.2 or higher, which must be purchased separately.

Learn More

For more information about how the Avaya G430 Media Gateway may be leveraged to support your business, please contact your Avaya Account Manager, Avaya Authorized Partner or visit us at avaya.com.

About Avaya

Avaya is a global provider of business collaboration and communications solutions, providing unified communications, contact centers, data solutions and related services to companies of all sizes around the world. For more information please visit www.avaya.com.



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