Polycom® MGC™-50 / MGC-100

Multipoint and gateway platform support for your video, voice and unified conferencing needs, today and tomorrow

Benefits

One MGC platform – supports your audio, video and unified multipoint and gateway conferences over any network

Flexible configurations and upgrades – specifically address your requirements for conference support

Low to high end scalability – port and feature capacities to build needed conference support today and address requirement for support in the future

System reliability and ease of maintenance – proven high levels of performance and ease of maintenance and support

Full, automatic transcoding – enables the seamless connection of audio and video endpoints into a conference

Shared resource system architecture – MGC hardware and software improves system reliability, and decreases the cost of ownership

Easy, clearly defined migration path – provides investment protection and the flexibility to increase capacity or add new conference support capabilities, when they are needed

Polycom's MGC-50 and MGC-100 deliver high levels of reliable multipoint and gateway conferencing support and unique capabilities to flexibly build conferencing solutions, regardless of audio, or video endpoint or network connection.

Low to high end scalability, the industry's best transcoding and the full resource sharing architecture of the MGC-50 and MGC-100 makes it easy to transition from switched to packet based service support.

Build VideoPlus MGC-50 or MGC-100 configurations to support ISDN and/or IP video multipoint and gateway conferences. VoicePlus configurations can support PSTN and/or VoIP. Build a Unified Conferencing configuration that supports voice and video conferencing over any network.

Polycom's MGC-50 and MGC-100 can be configured to support revolutionary features such as Click&View and key pad conference management control in an audio, video or unified conference.

The platform for The Polycom Office™
With integrated video, voice, data and Web capabilities. The Polycom Office is the only solution that offers you an easy way to connect, conference and collaborate any way you want.

VIDOFON
professional video communications

POLYCOM®

Video **Infrastructure** Voice

Connect. Any Way You Want.

Polycom MGC-50 / MGC-100

MGC 50 – MGC 100, scalable support for multipoint voice, video, unified, and gateway conferencing

Polycom's MGC-50 and MGC-100 platforms support scalable conferencing and gateway solutions, deliver proven reliability and ease of support. The 8 slot MGC-50 can be used in either a distributed or centralized deployment of conferencing and gateway services. The 16 slot MGC-100 with twice the scalable capacity of the MGC-50 and redundant powers supplies meets the requirements for a centralized service requiring support for a large number of ports, features and multiple network connections, dedicated, switched and packet.

Multi-network support for voice, video, and unified conferences

- IP (H.323) and ISDN (H.320) video
- PSTN and VoIP voice

Audio and video system capacities

Audio
- MGC-50 PSTN, 480 ports
- MGC-50 VoIP, 384 ports
- MGC-100 PSTN, 860 ports
- MGC-100 VoIP, 768 ports

Video
- MGC-50 H.320 ISDN/T1 @ 384 kbps, 61 ports
- MGC-50 H.320 ISDN/E1 @ 384 kbps, 64 ports
- MGC-50 H.323 IP @ 384 kbps, 192 ports
- MGC-100 H.320 ISDN/T1 @ 384 kbps, 122 ports
- MGC-100 H.320 ISDN/E1 @ 384 kbps, 144 ports
- MGC-100 H.323 IP @ 384 Kbps, 384 ports

Flexible deployment options

Choice of MGC platform
- MGC-50 – Customizable, enterprise platform
- MGC-100 – Customizable, large
    - enterprise/carrier
    - class platform
- Centralized or distributed network deployments
- Configure to support audio, video or unified conferencing

Transcoding

- Audio Algorithms G.711, G.722, G.722.1, G.723, G.728, Siren™ 7, Siren 14
- Networks – IP, ISDN, T1
- Network Speed – 128 Kbps up to 2 Mbps
- Resolution – QCIF or CIF
- Video Algorithms – H.261, H.263, H.264+
- Frame Rate – 7.5 fps-30 fps – 60 fields-per-second
- Data Rates – 6.4-46.4 Kbps MLP, 64-128 Kbps HMLP

Resource Sharing

Software Resource Sharing
- MGC operating system software
- Unified Conference Suite
    - IVR/DTMF audio & video
    - Greet and Guide
- Virtual Conference Suite
    - Virtual meeting rooms
    - Single number per conference
    - Auto-detect endpoint capabilities
    - Auto-extend and terminate the conference
- Packet Commander

Hardware Resource Sharing
- MGC platform
- Audio, video, network, and data modules

IP QoS support

- Reorders and synchronizes incoming IP packets
- IP Error Resiliency
- IP Precedence Support
- IP DiffServ Support

Firewall Security

- Works with existing data firewalls
- MGC platform firewall solution is Check Mark certified

MGC platform management tools

- MGC Manager – Windows®-based application for config-uration, scheduling and monitoring
- WebCommander™ – Web-based scheduling and management
- Personal Scheduler – Microsoft® OutLook® conference scheduling
- IVR/DTMF – Touch tone UI to conference features
- API Software Developers Kit (SDK)
- CDR Collector

Technical specifications

Audio support
- G.711a, G.711u. G.722, G.722.1, G.723.1, G.728, Siren 7, Siren 14

Video support
- H.261, H.263, H.264+
- 30 frames per second, 60 fields per second
- QCIF and CIF video resolution

Conference data rates
- 128 Kbps to 2 Mbps

Network interface support
- 10/100 Ethernet
- 2 PRI Interface ISDN and Dedicated, T1/E1
- 4 PRI Interface ISDN and Dedicated, T1/E1
- 8 PRI Interface ISDN and Dedicated, T1/E1

MGC-50 chassis dimensions
- Height 40.8 cm (16 inches)
- Width 38.1 cm (15")
- Depth 50.2 cm (19 inches)
- 8 Slot Chassis Power, 120-230VAC, 50/60Hz

MGC-100 chassis dimensions
- Height 40.8 cm (16 inches)
- Width 58.4 cm (23")
- Depth 50.2 cm (19 inches)
- 16 Slot Chassis Power, redundant power supplies, 3 load sharing 110-240 VAC, 50/60 Hz, -48 DC
- NEBS Level 3 Compliance with special-order systems

MGC-50 and MGC-100 chassis operating environment
- Oper Temp 10° to 40° C (50° to 104° F), 3400 BTU/hr
- Storage Temperature -40° to 70° C (-40° to 158° F)
- Relative Humidity 15% to 90% non-condensing
- Operating Altitude Up to 3,000 m (10,000 ft)
- Storage Altitude Up to 12,000 m (40,000 ft)
- Operating ESD +8kV
- Storage ESD +15kV