Polycom® MGC™-25 / MGC™-50 / MGC™-100

Industry-leading technology on a proven platform that supports your voice, video, and unified multi-point conferencing needs, today and tomorrow

Benefits

One MGC platform – Supports your voice, video, data, Web, and unified conferences over any network – IP (H.323, SIP), PSTN/ISDN

Complete flexibility – Modular, open architecture allows you to choose the precise configuration you want

Ease of Use – The simplest way to conference! Take advantage of one-number dialing and a single pass code for both voice and video applications, or point and click on the Polycom Web*Office*™ conferencing portal to initiate "instant" desktop conferencing

On Demand or Scheduled – Supports both on-demand conferencing and scheduled conferencing with easy-to-use, Web-based management tools

Low-to high-end scalability – Scalable capacity supports concurrent conferencing on the same platform

Automatic transcoding – Reduce IT management with the MGC's full transcoding capabilities, which ensure every voice and video endpoint dynamically connects to the conference at optimal capability

Advanced conference management features – Interactive keypad control (IVR/DTMF) for both voice and video conferencing gives participants the same features for all applications

Multi-level security – Secure conferencing includes password management, conference control, media encryption (AES) and an integrated firewall gateway solution

Easy, clearly defined migration path – Start with ISDN, add IP (H.323), and then introduce SIP-based multipoint conferencing – all without purchasing a new platform!

Polycom's MGC Unified Conferencing solutions, which include the MGC-25, MGC-50, and MGC-100, deliver reliable and secure multipoint and gateway conferencing with unique easy-to-use features – for any application, any endpoint, any network!

The MGC-25, MGC-50 and MGC-100 support voice, video, data, Web, and unified conferencing applications on a single platform in flexible configurations, making it the most customizable solution in the industry, while providing the highest ROI.

Industry-Leading Technology Platform

All platforms are based on a purpose-built architecture which efficiently shares both hardware and software resources across all applications, improving system reliability, increasing flexibility, and decreasing the cost of ownership.

Ease of Support

An open, modular architecture, the MGC supports any endpoint, any connection speed, and any application over any network – all transparently to the end user. Advanced features such as automatic transcoding, automatic resource allocation, hot swappable modules, and a single management interface all contribute to a significant reduction in IT management.

Complete Conferencing Flexibility

Connect any way you want… with easy conferencing access. The MGC supports both on-demand and scheduled conferencing, making it simple for end users to initiate an instant conference from their keypad (voice), remote control (video), or buddy list (WebOffice.) Alternatively, users can take advantage of Web-based Microsoft® Outlook® or IMB® Lotus Notes® scheduling tools to easily book conference resources and invite participants.

POLYCOM®

Connect. Any Way You Want.

Advanced Conference Management

Extensive conference management features put conference control into the user's hands to ensure more productive meetings. With just one number to dial for both voice and video conferencing, it's easy for participants to conference from anywhere at any time. Interactive keypad control (IVR/DTMF) for both voice and video conferencing applications ensures a true interactive experience for both chairpersons and participants.

Polycom's unrivaled Continuous Presence feature offers participants high quality visual effects that include site naming, customized borders, and speaker indications with a wide range of layouts. And the addition of Click&View™ provides an easy-to-use, end-user management interface that further simplifies multipoint video conference control with a click of your remote button.

The MGC-25 – A Compact, Ready-to-go System

An easy conferencing start with preset configurations, the MGC-25 provides high-value conferencing in a plug-and-play platform. Because the MGC-25 takes advantage of the same software as the MGC-50 and MGC-100, it includes the same unique features and functionality. Organizations large and small can get their conferences up and running in no time.

Complete Set of Management and Scheduling Tools

Included with every MGC-25, 50, and 100 configuration is a MGC Manager license. This is a comprehensive, client-based scheduling and management package. In addition, the MGC can support Web-based management and scheduling with Polycom WebCommander™, Polycom Conference Suite™, and Polycom ReadiManager™ LX 100.

A proven platform for multipoint unified conferencing to access the power of Polycom unified collaborative communications solutions.

With the greatest breadth and depth of integrated video, voice, and Web solutions, only Polycom delivers the ultimate communications experience. Our market-leading conferencing and collaboration technologies, supported by world-class service, enable people and organizations to maximize their effectiveness and productivity. Add to that the most experience and proven best-practices in the industry, and it's clear why Polycom has become the smart choice for organizations seeking a strategic advantage in a real-time world.

Polycom MGC-50 / Polycom MGC-100

MGC-50 – MGC-100 offer 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 eight-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 power supplies can support a large number of ports, multiple concurrent applications, and multiple network connections.

Multi-network Support for Voice, Video, and Unified Conferences
- IP (H.323 & SIP) and ISDN (H.320) video
- PSTN and VoIP voice
- Data V.35 via MPI module

Flexible Deployment Options
- MGC-50 – Customizable, enterprise platform
- MGC-100 – Customizable, large-enterprise/carrier-class platform
- Centralized or distributed network deployments
- Configure to support voice, video, or unified conferencing

Transcoding
- Audio Algorithms G.711, G.722, G.722.1, G.723, G.728, G.729a, Siren™ 7, Siren 14
- Networks – IP (H.323, SIP), ISDN, PSTN, V.35
- 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
    - People + Content – H.239

Resource Sharing

Software Resource Sharing
- MGC operating system software
- Unified Conference Suite (enables IVR/DTMF in both voice & video)
- Packet Commander (Polycom implementation to synchronize IP packets in a video stream that improves QoS)

Hardware Resource Sharing
- MGC platform
- Voice, 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 and Scheduling Tools

MGC Manager
Powerful system operator tool to support conferences and system administration on the MGC Bridge

WebCommander
MGC-centric, Web browser-based end-user tool to schedule and manage conferences, includes Microsoft Outlook interface

Global Management System™
Intelligent, Web-based management software solution for IT professionals who need to manage Polycom network devices

Polycom PathNavigator™
Advanced H.323 gatekeeper that fully understands IP and ISDN communication protocols for enforcing network bandwidth policies across the enterprise

Polycom Conference Suite™
All-encompassing software package that includes two fully integrated modules: Network Aware Scheduler and Video Network Management

Network Aware Scheduler™
Allows users to invite guests, book rooms, and select necessary equipment, all through a Web browser or from within Microsoft Outlook for IBM Lotus Notes.

Video Network Management
Provides tools for IRT professionals to proactively track and adjust the network as needed from any location.

ReadiManager LX100
single appliance that connects directly to the enterprise network to deliver simplified video/voice conference scheduling and device management
• 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, G.729a, Siren 7, Siren 14

Video support
• H.261, H.263, H.264
• 30 frames per second, 60 fields per second
• QSIF, SIF, 4SIF, QCIF, CIF, 4CIF, VGA, SVGA, XGA, PAL, NTSC video resolution

Conference data rates
• 128 Kbps to 2 Mbps

Security
• AES

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
• 2 T1 CAS
• 4 T1 CAS
• 8 T1 CAS

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
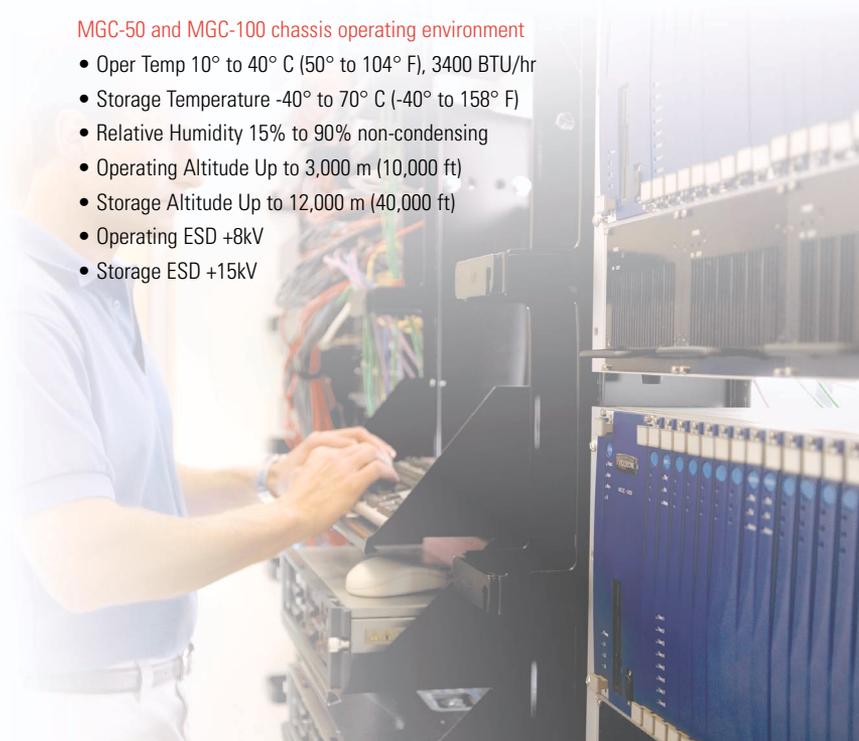
Polycom MGC-25

By offering 10 different preset configurations, the MGC-25 can support multiple types of applications and networks including gateway conferencing, full-featured multipoint voice and video conferencing, or both with unified conferencing.

For quick installations, the MGC-25 has an easy-to-use LCD and keypad located on the front of the system for simple IP address assignment. To configure the MGC-25, end users employ a self-guided interface that takes them through as little as one or two configuration screens. The installation can be completed in two steps: 1) Enter an IP address of the MGC-25 from the LCD and keypad on the front of the system. 2) Connect to the self-guided wizard and configure your system. Now you have completed installation and are ready to start conferencing.

MGC-25 Configurations

The MGC-25 is available in 10 configurations of Gateway, Polycom Video*Plus*™, Polycom Voice*Plus*, and Unified Conferencing

- GW 1 – Single PRI Gateway
- GW 2 – Dual PRI Gateway
- IP 12 – 12 port IP MCU
- IP 16+ - 16 port IP MCU plus 8 PSTN voice ports
- IP 16+ V – 16 port IP MCU plus 8 PSTN voice ports and video processing with advanced continuous presence, transcoding, and Click&View
- Unified 24 – Maximum of 24 ports for voice (VoIP & PSTN) and video (ISDN & IP)
- Unified 24 V - Maximum of 24 ports for voice (VoIP & PSTN) and video (ISDN & IP) with video processing including advanced continuous presence, transcoding, and Click&View
- ISDN V – 7 to 10 @ 384 kbps T1/E1 port ISDN MCU with video processing including advanced continuous presence, transcoding, and Click&View
- Voice*Plus* 24 – 24 PSTN voice ports
- Voice*Plus* 48 – 48 PSTN voice ports

Upgrade to the MGC-25 Unified 24

Any MGC-25 gateway, IP 12, IP 16+ or Voice*Plus* 24 system can be easily upgraded in the field to a Unified 24 configuration.

Upgrade to the MGC-25 Unified 24 V

The MGC-25 IP 16+ V and ISDN V systems can also be upgraded in the field to ISDN V configuration.

MGC-25 Technical Specifications

Transcoding

- Audio Algorithms G.711, G.722, G.722.1, G.723, G.728, G.729a, Siren 7, Siren 14
- Networks – IP (H.323 and SIP), ISDN, PSTN
- 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-30fps
- Data Rates – 6.4-46.4 Kbps MLP, 64-128 Kbps HMLP
  - H.239 fully transcodes between proprietary implementation

Resource sharing

Software resource sharing

- MGC operating system software
- Unified Conference Suite (enables IVR/DTMF in both voice & video)
- Packet Commander (proprietary Polycom implementation to synchronize IP packets in a video stream that improves QoS)

Hardware resource sharing

- MGC platform
- Voice, video, network, and data modules

IP QoS support

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

MGC platform management and scheduling tools

Same as for MGC 50/100 – see technical specifications for MGC 50/100 above

Audio support

- G.711a, G.711u. G.722, G.722.1, G.723.1, G.728, G.729a, Siren™ 7, Siren 14

Video support

- H.261, H.263, H.264
- 30 frames per second, 60 fields per second NTSC, 50 fields per second PAL
- QSIF, SIF, 4SIF, QCIF, CIF, 4CIF, VGA, SVGA, XGA, PAL, NTSC video resolution

Conference data rates

- 56/64 Kbps to 2 Mbps

Cascading

- Simple and H.243 Cascading

Network interface support

- 10/100 Ethernet
- 2 PRI Interface ISDN and Dedicated T1/E1

MGC-25 chassis dimensions

- 2U
- Width: 19" (48 cm)
- Depth: 19" (48 cm)

MGC-25 chassis operating environment

- Operating Temp 10º to 40º C, (50º Environment to 104º F), 3400 BTU per hour
- Storage Temperature -40º to 70º C (-40º to 158º 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 Power supply
- AC input 100 - 240 VAC, 50/60 HZ Power consumption
- AC voltage – up to 2 AMP at 100 VAC. 1 AMP at 240 VAC