Polycom® MGC™+ Readi*Convene*™

The proven industry standard for fundamental and specialty conference requirements

Polycom MGC+ Readi*Convene* conference bridges deliver reliable, secure, and highly customizable multipoint and gateway support for unified voice, video, data, and Web conferencing.

Polycom's MGC+50 and MGC+100 Readi*Convene* conferencing bridges support IP, ISDN and PSTN conferencing – including both multipoint and gateway calls – plus the option for a completely integrated suite of scheduling and management applications – all on a single platform.

Purpose-built to provide scalable team collaboration by supporting any endpoint, connection speed, and application with complete transparency to the end user, the MGC+ Readi*Convene* bridge supports both on demand and scheduled conference modes to expand collaboration across teams and workgroups.

Additionally, functions such as full transcoding, automatic resource allocation, consolidated management, and an intuitive interface enable the MGC+ Readi*Convene* series to be widely deployed and integrated with existing conference processes.

Conferencing How, When, and Where You Want

The MGC+ Readi*Convene* series powerful Web-based scheduling tools allow users to easily book conference resources and invite participants, while detailed and powerful management controls ensure a seamless, high-quality experience for both conference chairpersons and participants.

Features such as a continuous presence mode offer flexible user experiences, while Polycom Click&View™ visual layout tool provides an easy-to-use, end-user interface that simplifies multipoint video conference control with a click of the remote.

When utilized in tandem with Polycom Readi*Manager*® SE 200 management and scheduling solution, multiple MGC+ Readi*Convene* bridges can be supported by a central management, scheduling, and gatekeeping application.

Make Great Things Happen with Polycom MGC+ Readi*Convene* Conferencing Bridges

In today's Internet driven world, the ability to conduct real time communication and collaboration has become critical to an organization's survival. As the market leader in voice, video, data and Web solutions, our award-winning conference technology makes it easy for people to interact and maximize productivity — over any network, in just about any environment, anywhere around the globe. That's why more organizations worldwide use and prefer Polycom conferencing solutions. Because when people work together, great things happen. See how you too, can achieve great things with Polycom MGC+ Readi*Convene* conferencing bridges.

Benefits

Polycom UltimateHD™ – The MGC+ Readi*Convene* unified conferencing bridges support standards-based HD multipoint conferencing on a scalable platform, and integrates with other Polycom HD Voice™, video and recording solutions

On demand solutions – Take advantage of on-demand conferencing features including one-number dialing to initiate a conference; personal Meeting Rooms and Entry Queues, and extensive IVR/DTMF services

Cost effective – Single platform solution supports IP, ISDN, and PSTN multipoint and gateway conferencing, including the option for integrated scheduling and management

Flexible conferencing – Scheduled and on demand, multipoint and gateway, dial in and dial out, for audio, video and unified conferences – making the MGC+ Readi*Convene* conferencing bridge the most flexible solution on the market

Simple to deploy – Provides a Web-based wizard for easy set up, and pre-configured Meeting Rooms for out-of-the-box conferencing over IP

Quality of Service – Highest quality audio and video with exclusive Polycom video and audio error concealment, IP Precedence and DiffServ

POLYCOM®

TOGETHER, GREAT THINGS HAPPEN.

VideoVoiceDataWeb

Polycom MGC+ Readi*Convene* Specifications

Polycom Readi*Convene* Chassis Options

MGC+ 8-Slot Chassis Dimensions

- Height: 40.8 cm (16 in)
- Width: 38.1 cm (15 in)
- Depth: 50.2 cm (19 in)
- 8-slot chassis power: 100-240VAC; 50/60Hz

MGC+16-Slot Chassis Dimensions

- Height: 40.8 cm (16 in)
- Width: 58.4 cm (23 in)
- Depth: 50.2 cm (19 in)
- 16-slot chassis power: Redundant power supplies, three load sharing 100-240VAC, 50/60 Hz

MGC+ 8- and 16-Slot Chassis Operating Environment

- Operating 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% noncondensing
- 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

Technical specifications

Product Architecture

Universal Slot Architecture, Hot Swappable Modules, Dynamic Allocation Of Conference Resources, NEBS Compliance Chassis Option (Blue MGC), Redundant Power Supplies, Unlimited number Of Conferences, Unlimited Conference Size, Mixed Protocol Solution, Integrated Dial through Gateway Support

Conference Data Rates

- 64 Kbps to 1920Kbps

Network Interface Support

H.323 (IP) 10/100 Ethernet , Dedicated 10/100 Management Ethernet Port , MPI/V.35/RS-449/RS 530/ serial interface , H.320 PRI/T1/E1/Leased/Restricted, T1 CAS, ISDN NI1 and NI2

Video Support

H.261, H.263, H.263+ Annex I, J, N, P, T , H.263++ Annex W, H.264, 30 frames per second, 60 fields per second, SQSIF/SQCIF, SIF/CIF, VGA, 4CIF, SD, SVGA, XGA, HD

Audio Support

G.711a, G.711u , G.722, G.722.1 , G.722.2 (SoundStation VTX 1000® only), G.723.1 , G.728 , G.729A, Siren™ 7, Siren 14

Conference Set-Up Options

- Audio Only Conference
- Video Switched Conference
- Video CP Conference
- Unified (Audio/Video/Data) Conference
- Gateway Session
- Master Templates
- Conference Templates
- Participant Templates
- Attended Conf Management
- Unattended Conf Management
- Click&View
- IP Software CP Video Conference
- Auto Layouts
- Lecture Mode
- Presentation Mode
- Large System Capacity Conferences
- Conference requires chairperson to start
- Terminate conference after chairperson leaves
- Terminate conference after last person
- Dial-in
- Dial-in Auto Rate Detection
- H.221 Aggregation
- ISDN Bonding
- ISDN Downspeeding
- Single Number Per Conference
- Single Number for All conferences
- ANI Conference Routing
- Dial-out (manual or auto)
- Dial-out Auto rate Detection
- Dial-out PSTN/ISDN Auto Detection
- Entry Queue – Manual/Auto Transfer
- IVR/DTMF
- Simple Cascading
- H.243 Cascading
- Enhanced IP Cascading
- H.243 Chair Control
- Far End Camera Control
- Auto Conf End
- Auto Conf Extension
- Quality Of IP Service (DiffServ, IP Precedence, TOS)
- Audio Volume Control
- Automatic Gain Control
- Music On Hold detection
- T.120
- H.239/People+Content™ (including adjustable BW for the content)
- Duo Video
- SoundStation VTX 1000 support
- Automatic Dial Out To Predefined Participants
- Adjustable Audio Mix Depth

Scheduling Features (WebCommander™/IAM/ MGC Manager)

Web Browser Interface, Microsoft® Outlook® Interface, Portal Interface , Scheduled For Future Start, Re-occurring Conferences, in a secure mode including encryption and authentication

Conference Features

- Roll call, name announced on entry and exit, conference roster
- Entry, exit and end of conf tones
- Visual indication (message) for participant entry/exit
- Visual indication (message) when conference is about to end
- Invite new conference participants (PSTN & IP video participants)
- Delete Conference Participant
- Mute Participant Audio
- Mute Participant Video
- Lock/unlock the conference
- Hide/Unhide conference
- Secure/un secure conference
- Place/reinstate conference on hold
- Request operator assistance
- Increase/decrease my audio volume
- Mute/unmute my audio
- Mute/unmute all but me
- Block Participant Audio Transmission
- Voting/polling
- Question and answers
- Pass Chairperson Control
- Terminate Conference
- Extend conference
- Active Speaker Indication
- Site Naming Defined From Reservation Entry
- Personal CP View
- User Control of Personal CP View
- Chair Control of Conference View
- Asymmetric CP Views (lecture mode)
- Passive Conference Attendance (lecture show)
- Switching between CP & Full Screen

Conference Security

- PIN Code Conference Access
- External Encryption (using KIV)
- Firewall Gateway
- Password Hierarchy
- Conference Password
- Guest Password
- Chairperson Password
- Auto Generate Password
- Lock Ongoing Conference
- Entry & Exit Tones
- Chairperson Protected Conference
- Termination When Chair or Last Person Leaves
- Caller Line Identification
- Play Participants Name Upon Entry Or Exit
- Password Validation Using Internal Or External DB

Encryption

- FIPS 197 validated by National Institute of Standards & Technology (NIST) certified agency
- 128-bit key length
- AES software encryption on ISDN, IP and Serial/V.35 up to full bandwidth
- Standards-based H.235V3 (IP)
- Standards-based H.233/H.234 (ISDN/Serial)
- Automatic key generation and exchange
- Supported in H.239/People+Content
- FIPS 140-2 (pre-validation list)

iPriority™ – Quality of Service Features

- Video Error Concealment
- Audio Error Concealment
- IP Precedence (ToS)
- DiffServ
- Packet and jitter control
- Network Address Translation (NAT) support
- Asymmetric speed control
- Alternate Gatekeeper support
- TCP/UDP fixed-port firewall support
- Lip synchronization
- Echo cancellation
- Auto gatekeeper discovery
- Automatic gateway dialing profiles
- Specify outbound call routing for gateway/ISDN

Other ITU-Supported Standards

- H.221 communications
- H.224/H.281 far-end camera control
- H.323 Annex Q far-end camera control
- H.225, H.245, H.241, H.331
- H.239/ People+Content
- H.231 in multipoint calls
- H.243 MCU
- H.233, H.234, H.235V3 encryption standards
- Bonding, Mode 1
- NTP
- TCP/IP, UDP/IP, HTTP, DNS ,DHCP, RTP/RTCP, FTP

SIP Support

- Microsoft LCS
- Nortel® MCS
- Alcatel®
- Standard-based SIP servers (IPTEL)

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