

# Polycom® RMX™ 4000

## The Ultimate Collaboration Platform



### Enabling life-like, highly reliable multipoint conferencing with incredible scale.

The Polycom RMX 4000 Conference Platform allows organizations to unite teams over distance in any media. From users in immersive telepresence suites to remote audio callers, the RMX 4000 delivers high quality group communication for increased knowledge sharing and faster team decision making at large organizations.

The highest capacity platform in the RMX series, the RMX 4000 natively supports multiple network types to extend the power of unified collaboration within—and beyond—the enterprise. For managing wide-scale conference deployments, the Polycom Distributed Media Application™ (DMA™) 7000 pairs with the RMX 4000 and Polycom RMX 2000® to deliver unmatched redundancy, scale, flexibility, and control for conferencing

#### **Rapid Return on Investment**

The RMX 4000 delivers protection for existing investments in video, audio, and telepresence solutions via seamless migration to high definition (HD) with enhanced support for non-HD systems. Flexible and fixed capacity modes enable network managers to deliver the most efficient communications for their particular environment.

The easy-to-manage RMX 4000 features a tiered-access, web-based interface for administrative ease. The modular design of the RMX 4000 is based on the Advanced Telecom Computing Architecture (AdvancedTCA®), allowing a standards-based, build-as-you-grow approach to capacity and hot swappable parts for fast field service.

#### **Designed for the User**

High quality interactions are achieved via life-like video (up to 1080p), audio, and shared content. Conferences may be scheduled and closely managed with operator assistance or run entirely on demand. Virtual meeting rooms may be easily adjusted to fit unique personal or organizational requirements, and also provide on demand access for end users to bridge resources. Meeting participants may modify conference views while in session, maximizing their unique experience.

#### **Find Out More**

Learn what the Polycom RMX 4000 can do for your organization. Visit us at [www.polycom.com](http://www.polycom.com) or contact your Polycom representative.

#### **Benefits**

- ▶ Maximum scale – High capacity for audio, conference room, desktop video, and immersive telepresence calls
- ▶ Built-in redundancy – Redundant AC/DC power supplies, hot swappable parts
- ▶ Multi-network support – IP (H.323, SIP), PSTN, and ISDN on a single chassis
- ▶ Life-like performance – Resolutions up to 1080p; Video Clarity™ improves non-HD video streams—meetings never looked better!
- ▶ Anytime, on demand conferencing – Always on virtual meeting rooms
- ▶ High-touch management options – Operator assistance, reservation calendar, conference templates
- ▶ Best per call value – Flexible and Fixed performance capacities
- ▶ Resilient multipoint conferencing – Polycom Lost Packet Recovery™ (LPR™)

# Polycom RMX 4000 Specifications

The Polycom RMX 4000 conference platform is available in 40, 80, 160, 240, and 320 resource configurations.

## Physical Dimensions

- 10.5" h. x 19" w. x 15" d., 6U (26.56 x 48.26 x 40 cm)
- Weight: Up to 88 lbs (40 Kg)
- Four slot media processing modules (MPM+ cards)
- Two slot application server (one for MCU management)
- Power: 100-240 VAC  $\pm$  10%, 47-63 Hz; 1200 W max power consumption
- AC option: Three AC power supplies with three power cords (at least one redundant and hot swappable)
- DC option: Two DC inputs (main and battery)
- High bandwidth backplane for seamless connection between all cards
- Fan drawer
- AdvancedTCA®

## Operating Environment

- Operating temperature: 10° to 40° C (50° to 104° F), 3400 BTU/hr
- Storage temperature: -40° to 70° C (-40° to 158° F)
- Relative humidity: 15—90% noncondensing
- Operating altitude: 60 m (200 ft) below sea level to 3,000 m (10,000 ft) above sea level
- Transit/Storage: 60 m (200 ft) below sea level to 15,000 m (50,000 ft) above sea level

## Video Support

- H.261, H.263 (H.263++), H.264
- Up to 60 frames per second
- From QCIF to HD1080p including wide range of intermediate resolutions
- Up to HD1080p 30 fps and 720p 60fps in continuous presence (CP) transcoding (TX)
- 16:9 and 4:3 aspect ratio
- H.239 content sharing resolution (H.263/H.264): VGA, SVGA, XGA
- Video Clarity™ to sharpen and upscale video

## Audio Support

- G.711a/u, G.722, G.722.1C, G.722.1, G.723.1, G.729A, Polycom Siren™ 14
- IVR prompts for auto attendance
- User and managed mute control
- DTMF support
- Echo and keyboard noise suppression

## Capacity

- Up to 320 media resources and 1600 audio resources
- Flexible Resource Capacity support:
  - 80 HD endpoints in continuous presence (CP)
  - 120 Standard Definition (SD) endpoints in CP (with max resolution of 1024x576)
  - 320 CIF endpoints in CP & HD voice switch
  - 1,600 VoIP endpoints/400 PSTN
- Fixed Resource Capacity sets resources for constant capacity, no matter what the call type
- Integration with Polycom DMA™ 7000 for up to 1200 active participants

## Management Tools

- RMX Manager offers Web-based and application-based access
- Administrator, operator, chairperson, and auditor views
- Shelf management hardware monitor
- Complete XML API kit for 3rd party application integration
- Up to 4000 address book entries
- Address book quick search
- Operator conference
- Scheduling options
  - Internal reservation calendar
  - Scheduling and gatekeeping functions via Polycom Converged Management Application™ (CMA™) 4000/5000
- External database access (LDAP/AD)

## Language Support

- English, Simplified Chinese, Traditional Chinese, Japanese, Russian, German, Korean, Spanish, French, Italian, Portuguese, Norwegian
- Double Byte (Unicode) site names

## Network Support

- IP H.323 and SIP
- PSTN and VoIP voice
- ISDN (H.320)
- IPV4 and IPV6
- 10/100/1000 Mb interface
- 64 kbps to 6 Mbps conference data rates
- Up to 768 kbps for content
- Gateway calls
- Direct dial-in from any network

## Transcoding

- Audio algorithms
- Video algorithms
- Networks
- Resolution
- Frames rates
- Bit rates

## IP QOS

- Polycom Lost Packet Recovery™ (LPR™)
- DiffServ
- IP Precedence
- Dynamic jitter buffer
- Voice and video error concealment

## Security

- Separation of management and media networks
- AES media encryption (IP and ISDN)
- Transport layer security (SIP)
- Strong password policy
- Tiered administrative access levels
- Secure conference mode

## Approval and Compliance

- CE
- UL, ETL, CB
- EMC: FCC 47CFR PART 15, VCCI, AS/NZS CISPR 22, ICES-003
- Safety: UL 60950-1, IEC 60950-1, EN 60950-1
- RoHS 6

## Conferencing Highlights

- Support for Polycom immersive telepresence rooms (Polycom RPX™, Polycom TPX™)
- Integration with Polycom RSS™ Series
- Up to 24 different conference layouts
- Personal layout
- Auto layout
- Layout range: 1x1 to 4x4
- Advanced Polycom Click& View™
- Layout background (skins) options
- Lecture and presentation mode
- Roll call
- Closed caption
- Conference profiles
- Conference templates
- Far-end camera control (FECC) H.224/H.281, H.323 annex Q and SIP FECC
- Conference dial-out and dial-in
- Up to 4000 meeting rooms
- Advanced IVR flow
- Transparent site names
- H.239 support over H.323 cascaded links (between any Polycom bridges)

## Polycom Worldwide Headquarters

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