

# Polycom<sup>®</sup> QSX™

## Technical Specifications

### Content Transmission

#### Bandwidth Configuration Options (set via Admin Web page)

- Default Average Transmit & Receive Bandwidth: 1,920 kbps
- Maximum Average Transmit Bandwidth Setting Range: 128 kbps - 1,920 kbps\*
- Maximum Average Receive Bandwidth Setting Range: 128 kbps - 1,920 kbps

#### Maximum Bandwidth Requested in Unlimited Bandwidth Environment

- H.323 link to other QSX appliances or Polycom video systems: Up to 1 Mbps
- HTTP link to each Web viewer up to 1 Mbps

#### Other Bandwidth Configuration Options (set via Admin Web page)

- Bandwidth Sharing Mode for simultaneous transmission to each remote connection
- Time Sharing Mode for sequential transmission to each remote connection
- Load Balancing to distribute Web Viewers among multiple QSX units in a Session.

### Video & Graphics Standards

- H.263
- H.239
- JPEG for Web viewer

### IP Protocols

- TCP/IP
- ITU H.323
- http

### Frame Rates

- TCP/IP
- ITU H.323
- http

### Network Interfaces Supported

- IP (LAN, DSL, cable modem)\*\*
- Single 10/100 Ethernet port (10 Mbps/100Mbps/Auto)

### Network Features

- Error Concealment
- TCP/IP, DNS, WINS, DHCP, ICMP, ARP, http, FTP, Telnet

### Multipoint Capabilities

#### Internal Multipoint Features

- Up to 10 Web viewers using embedded web server
- Up to four additional connections to other QSX or VSX™ units with embedded H.323 MCU

#### Automatic Connect Feature for QSX to QSX meetings

- Requires wired analog Polycom conference phone connected to QSX
- Embedded low bit rate (100bps) inaudible modem over phone line automatically exchanges QSX IP addresses and initiate H.323 content sharing channel between QSX rooms on phone call
- Works to connect up to five QSX systems in single meeting. Compatible with any audio conferencing service or bridge

#### Interoperability with Polycom Video conferencing products

- VSX dial-in support to share content between QSX and video system(s) over H.323 call

#### Interoperability with Polycom MGC™

- Use H.323 dial out capabilities of MGC to enable larger multipoint QSX to QSX meetings\*\*\*
- Compatible with scheduled dial out conferences for MGC 7.5.0.52 release and beyond

### System Security

#### Security

- Secure password authentication for each session
- Password for Web viewer access

- Administrator password to control access to Admin Web page
- Ability to disable remote interfaces (FTP, Telnet, http)

### Password Security

- Random password generation by holding Info button on QSX Content Controller for 4 seconds
- Alternative when conference phone connected: random password generation when conference phone goes off/on hook
- Auto password reset after 60 minutes elapsed time without any active QSX use
- Admin option to set fixed session password

### Media Encryption

- Advanced Encryption Standard (AES) for H.323 content stream
- 128-bit key length

### Resolution

#### Content Resolution

- Input: SXGA (1280 x 1024), XGA (1024 x 768), SVGA (800 x 600), VGA (640 x 480)
- Output: SXGA (1280 x 1024), XGA (1024 x 768), SVGA (800 x 600)
- User configuration to scale transmitted content down across range of resolutions to optimize performance. XGA (1024 x 768), SVGA (800 x 600), VGA (640x480)
- Capability to independently scale Web viewer (http) content or H.323 content stream

### Physical Dimensions and Interfaces on QSX Base Unit

#### Dimensions

- Maximum dimensions: 8.6" (L) x 7.6" (W) x 1.8" (H) / 19.3cm x 21.8cm x 4.6cm

- Weight: 2.85 lbs. / 1.3 kg

#### Required I/O

- Graphics Input: 1 VGA connector
- Graphics Output: 1 VGA Connector
- Ethernet Port: 1 RJ 45 connector
- Power: 1 AC Power connector

#### Optional I/O - (for use if conference phone connected or for local management)

- Compatible with all analog wired Polycom conference phones
- 1 x 8 wire RJ45 connector to conference phone wall module
- 1x 8 wire DIN connector to conference phone console
- 1x Conference Link connector for SoundStation VTX 1000®
- 1 Serial port RS-232 DB-9 Connector

#### User Interface

##### Content Controller

- Tabletop meeting control pod with integrated 20 ft. VGA cable.
- LED indicators for meeting status (idle, preview, send)
- Share button
- Info button
- Integrated VGA cable to Base unit

- 3 ft. VGA in cable to connect presenting computer to controller (cable included)

#### SoundStation VTX 1000 Soft keys (optional for QSX 300)

- Share button and Info button appear on phone LCD
- No need for Content Controller
- QSX 300 ships with standard VGA cable to connect computer to QSX

#### Soft Interface shown on local display in QSX location

- Info alerts for new participants and connection status
- Info screen: IP address for Web Viewer login, Password, Content Status, Meeting Participants

#### Configuration and System Management

- Integrated Web Admin page for easy remote configuration and management
- Diagnostics and software upgrades via PC, LAN
- Support for Polycom Global Management System™ & Polycom PathNavigator™

#### Quality of Service and Experience

- IP Precedence (ToS) - default
- Dynamic Bandwidth Allocation
- Proactive Network Monitoring

- Packet and jitter control
- TCP/UDP fixed-port firewall support

#### User Interface

##### Browsers

- Internet Explorer 6.0 and higher - Windows® 2000 and XP
- Netscape® 7.1 and higher - Windows 2000 and XP
- Safari 1.2.4 and higher - Mac® OS 10

##### Web Viewer Login

- Login interface for user name & password

##### Web Viewer network requirements

- 56k and higher

#### Web Administrator Requirements

##### Browsers

- Internet Explorer 6.0 and higher - Windows 2000 and XP

QSX 400 – For general use as stand-alone system or connected to any wired, analog Polycom conference phone except for the SoundStation VTX 1000\*\*\*\*. Ships with Content Controller UI.

QSX 300 – for use with Polycom SoundStation VTX 1000 software release 1.6 or higher. Uses SoundStation VTX 1000 softkeys as UI and standard VGA cable. Does not ship with Content Controller.

\* Performance and scalability may vary depending on Bandwidth option selected – see Administrator Guide for more detail.

\*\* DSL and Cable Modem require DMZ configuration

\*\*\* Scalability governed by MGC port and bandwidth availability

\*\*\*\*The QSX400 can be adapted for use with the SoundStation VTX 1000 with an additional accessory cable.