

QuadroCS

REDEFINING THE CHAT ROOM



QuadroCS: The Quadro VoIP Conference Server Redefines the Chat Room

The QuadroCS is the complete low-cost Voice over IP conference server for small and growing businesses. Connected over 10Base-T Ethernet to the Internet, the QuadroCS allows voice conferencing of up to 25 participants in one or more simultaneous call clusters. Everyone can be reached inbound and out-bound. It's like having your own global chat room

Fully-Featured Conference Server

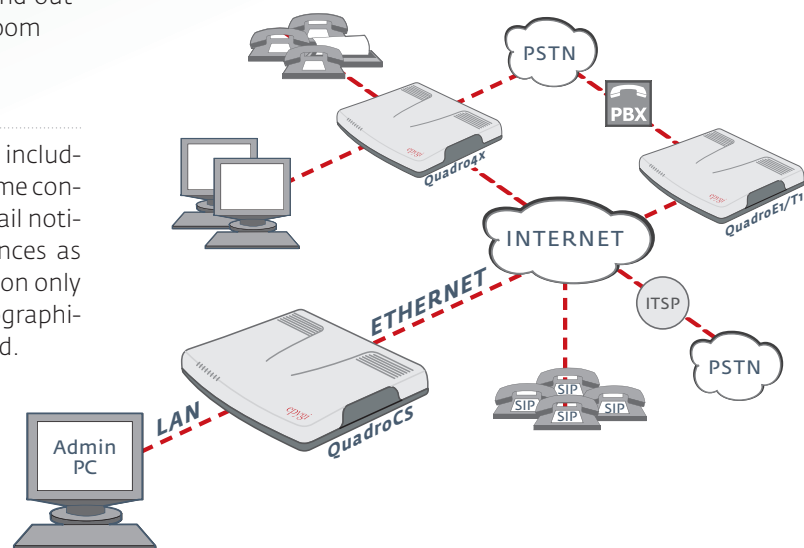
The QuadroCS offers a multitude of features including automatic dial-out to participants, meet-me conferences, locking/recording a conference, email notification and reminder of scheduled conferences as well as a conference creation wizard to mention only a few. For larger conferences, clusters of geographically dispersed QuadroCS units may be defined.

Integrated Internet Access

The QuadroCS conference server allows voice Internet access with firewall security, including NAT.

Lowering Costs

Monthly recurring costs for expensive conference services are eliminated with the low-cost system QuadroCS that practically manages itself.



Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbps), G.729, iLBC (13.33 kbit/s, 15.2 kbit/s); (RFC 3951, ITU-T: G.711, G.723.1 Annex A, G.726, G.729 Annex A; IETF; ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3) NAT traversal (both manually and STUN) VAD, CNG, G.168 echo cancellation

Bandwidth Requirements

Per call WAN bandwidth requirements for the following codecs (non-encrypted):

G.711/G.711u	20 msec	84 kbps
G.726-16	20 msec	37 kbps
G.726-24	20 msec	45 kbps
G.726-32	20 msec	52 kbps
G.726-40	20 msec	60 kbps
G.729a	20 msec	29 kbps
G.723	30 msec	21 kbps
iLBC	30 msec	27 kbps

Conference Features

Automatic dial-out to participants
Lock a conference
Record a conference
Password protect conferences
Email notification and reminder of scheduled conferences
Cluster geographically dispersed CS units for larger conferences
Participant Web GUI
Conference creation wizard
Meet-me conferencing
Auto Attendant for single unified numbers to reach all conferences

Call Signaling

SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 3311, 3428, 3515, 3842, 3856, 3891, 3892, 3581, draft-ietf-sip-session-timer-15, draft-ietf-sipping-dialog-package-05; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sipping-dialog-package-05)
SDP (RFC 2327)
RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rtp-llbc-05)
RTP Proxy

DTMF

Caller ID support
In band and out of band signaling support

Connectivity

Premise Connections

1 Ethernet 10/100BASE-T port (RJ45)
1 USB master connection

Uplink Connection

1 Ethernet 10BASE-T port (RJ45)

System Capacity

25 participants in one or more simultaneous conferences

USB Expansion

USB memory sticks for conference recording storage

Internet

NAT address translation
STUN/NAT traversal (RFC 3489)
Firewall security via:
NAT (Network Address Translation)
DHCP server on the LAN side
DHCP client on the WAN side
DNS server with forwarding functionality
SNTP (Simple Network Time Protocol) server/client for computer clock synchronization
IP DIFFSERV for QoS
DNS (DYNDNS) support with third party
SMTP client for system event notification

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off
Password control
Remote diagnostics and software upgrade
Download/restore configuration
Reset button with factory reset option

Diagnostics/Testing

LEDs: Busy, Info, Fault, USB, LAN, WAN,
Power-up diagnostics

Environmental

Physical Dimensions

Desktop devices, wall-mountable:
Measurements: 10.04" x 8.27" x 1.77"
(25.5 x 21.0 x 4.5 cm)
Weight: 22.6 ounces (640 g)

Rack-mountable devices:

Measurements: 19" x 7.56" x 1.77"
(48.0 x 19.2 x 4.5 cm)
Weight: 2.47 lbs. (1060 g)

Conditions

41°F - 104°F (5°C - 40°C) operating temperature
41°F - 140°F (5°C - 60°C) storage temperature
5% - 90% non-condensing humidity

Power Supply

Input 100 - 240 VAC; 50/60 Hz; 0.5 A
Output 12.0 VDC; 1.5 A

Regulatory Compliance

Safety: UL 60950; CSA 22;
EMC: FCC Part 15 Class B;
EN 55022 Class B, EN 55024;
Telecom: CTR21/TBR21



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