



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

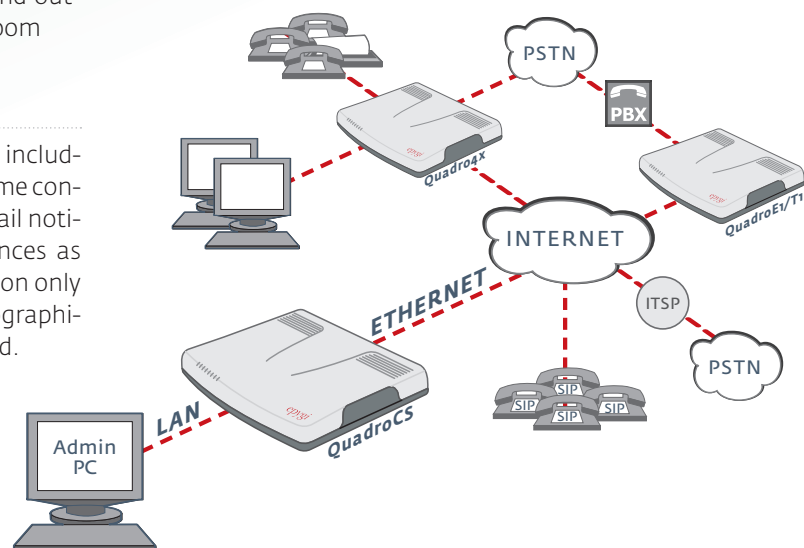
The QuadroCS offers a multitude of features including automatic dial-out to participants, meet-me conferences, locking/recording a conference, email notification and reminder of scheduled conferences as well as a conference creation wizard to mention only a few. For larger conferences, clusters of geographically 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; 2000, 2002; ETS_300659_1,2,3)
NAT traversal (both manually and STUN)
VAD, CNG, Reduced simultaneous channel capacity

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
- Lecture Mode
- Conference activation via:
 - Scheduling
 - Web GUI
 - Triggering
- Request to speak
- Reservation
- Set listener/speaker
- Caller ID
- Cluster geographically dispersed CS units for larger conferences
- Conference Creation Wizard
- Call and Conference Statistics
- Auto Attendant for single unified numbers to reach all conferences

Call Signaling

SIP (RFCs: 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3891, 3892, 3842, 3856, 3863, 4028, 4235)
SDP (RFC 2327)
RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rtp-ilbc-05),
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

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
- PPPoE connection to the ISP with PAP/(MS)CHAP authentication
- DNS (DYNDNS) support with third party
- Port forwarding
- Port translation

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off
3-level Administration

- Administrator
- Moderator
- Participant

Password control
Remote diagnostics and software upgrade
Auto-provisioning
SMTP Monitoring
Download/restore configuration
Reset button with factory reset option
Custom Language Pack

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;
EN55022 Class B, EN55024;
Telecom: CTR21/TBR21



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