Quadro CS

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 outbound. It's like having your own global chat room
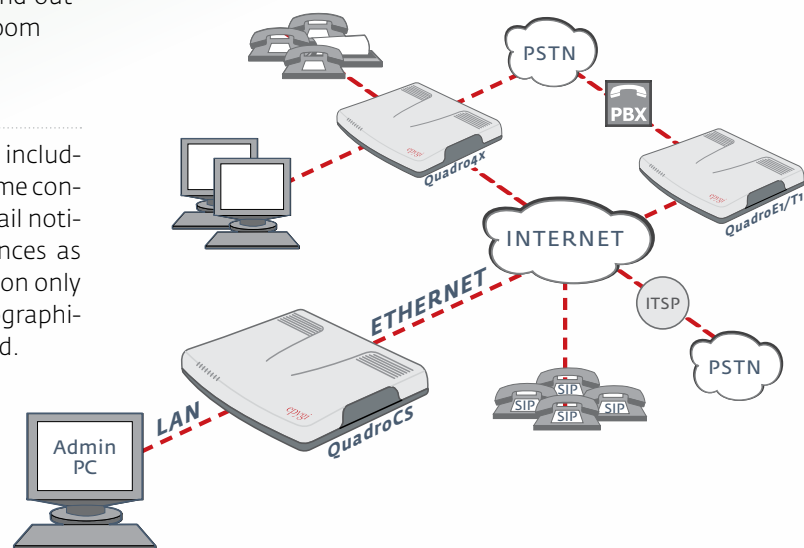
Fully-Featured Conference Server

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.

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Telephony

Voice Features
Voice Coding G.711, G.726 (16, 24, 32, 40 Kbps),
    G.729, iLBC (13,33 kbit/s , 15,2 kbit/s);
    (RFC 3951, ITU-T: G711, G.726, G729 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):

Codec	Time	Bandwidth
G.711a/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
iLBC	30 msec	27 kbp

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
30 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/cli-
ent for computer clock synchronization
IP DIFFSERV for QoS
PPPoE connection to the ISP with PAP/(MS)CHAP
authentication
DNS (DYNDNS) support with third party
NAT/Router with port forwarding
and port translation

System

Management
Multilingual WEB interface accessible from LAN
and WAN (HTTP/HTTPS)
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

CE

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Technical Data: QuadroCS, Version 4.1.x