

Quadro[®]2x



Quadro2x: The Small Office All-in-One Solution

The Quadro2x is a fully featured IP PBX for small office use. This solution offers one FXO analog PSTN connection, two FXS analog station ports and up to 16 IP phones. Additionally, this phone system is equipped with a built-in router with LAN and WAN ports to manage your office's data network. A lifeline ability is enabled in case of power failures to allow one analog telephone the ability to make calls outside the office. The Quadro2x can be setup for a very simple environment or configured for advanced users to take full advantage of the more powerful features. In addition, the Quadro2x is standards-based allowing users to decide for themselves what analog and IP handsets to use.

Features include automatic attendant, unified messaging, fax-to-email, voicemail-to-email, find-me follow-me and a number of other business critical features. All of these features are supported on the local telephones in the office and the remote users that are either on the road or work from home. A full web-based GUI interface included in the system allows for local and remote management and configuration. End users of the system have access to the user management interface where they can view all their call activity, voicemails and modify features related to their extension.

Remote Site Solution

This product can also act as a slave or remote node to a corporate HQ IP PBX. Local phones can register on the Quadro2x and then SIP connect back to the HQ IP PBX to communicate with other employees. A secure VPN tunnel can also be setup between multiple Epygi Quadro PBXs.

VoIP Carrier Business Class Service

For other installations, the Quadro2x can function as a home office device offering advanced features for customers of a hosted data and voice provider. The VoIP carrier can offer more functionality to the users by installing a Quadro2x in the users' home and still offer the simplicity of a hosted service managed by the carrier.

What are Your VoIP BENEFITS?

- Simple configuration and support
- Based on industry standards
- No expensive upgrade costs
- Fully featured out of the box

Telephony

PBX Features

Call blocking, Forwarding, Hold, Transfer
Call relay, Call waiting, Caller
ID Detection
Voice mail
Call park, Pickup, Paging, Intercom
Multi-level auto attendant with Interactive
Voice Response (IVR) and VoiceXMLv2
support
Voice mail with SMS notification
Distinctive ringing
Speed dialing
Many extension ringing
Receptionist
Call hunting, Hiding Caller ID
Automated Call back from Auto
Attendant
Hold music
Call statistics
Do Not Disturb
Global speed dial
Find me/Follow me
Unified messaging
3-way conferencing
Hotline service
T.38 fax, fax relay and clear channel fax
Unified Fax Messaging
Busy auto-redial
Directory assistance
Dial plans (call routing)
Time of day routing
Call Queue
Voice Mail profile

Voice and Video Features

Voice Coding:
G.711, G.726 (16, 24, 32, 40 Kbps),
G.729A, iLBC (13.33 kbit/s, 15.2 kbit/s);
VAD, CNG, G.168 echo cancellation
G.722 pass-through point-to-point HD call
Video Coding:
H.263 and H.264 pass-through point-to-
point video call
VoIP Encryption:
SRTP
VoIP Signaling
SIP, SIP/TLS
DTMF
In band & out of band signaling support.

VoIP Data and Signaling Protocols

ITU-T G711, G.726, G729 Annex A;
IETF RFC 3951- iLBC; ITU-T Q.23, Q.24;
Bellcore GR.506, GR.181; ITU-T G.168-
2000, 2002; ETS 300659 1,2,3;
SIP, SIPs/TLS (RFCs: 2246, 3261, 3263,
3265, 3311, 3323, 3324, 3325, 3428, 3515,
3578, 3581, 3725, 3842, 3856, 3863, 3891,
3892, 4028, 4235)
SDP (RFC: 2327, 4568)
RTP/SRTP (RFCs: 1889, 1890, 2833, 3389,
3550, 3551, 3555, 3711, 4733, 3952),
Fax over IP (ITU-T: T4, T30, T38, V17, V21,
V27 ter, V29)

POTS Signaling

Loop start
FSK and DTMF Caller ID support

Connectivity

Physical interfaces

Premise connections:
2 FXS short-loop FXS ports (RJ-11)
1 LAN Ethernet 10/100 BASE-T port (RJ-45)

Uplink connections:
1 FXO ports to the Central Office (RJ11)
1 LAN Ethernet 10 BASE-T (RJ45)

Phones

IP phones:
8 SIP phones by default
8 additional SIP phones may be
added with feature keys
All SIP phones can be connected both
from LAN or WAN side
Plug-and-Play with select IP Phone
manufactures

Analog phones:
2 Analog phones (or other analog devices)
to connect via FXS ports

Auto Attendants and Virtual Extensions

Auto Attendants:
Up to 100 standard and custom AA can
be registered

Virtual Extensions:
Up to 100 Virtual Extensions can be
registered*

*The total number of extensions used for IP
phones, Analog phones, AA and virtual
extensions can not exceed 100 extensions.

System Capacity

Up to 12 simultaneous VoIP calls with
external parties
Unlimited station to station calling for IP
phones
Unlimited station to station calling for
analog phones
1 analog PSTN calls with external parties

Internet

STUN/NAT traversal (RFC 3489)
IPSec VPN with DES, 3DES and AES
encryption in tunnel mode (RFCs: 2402,
2406, 2409). Automatic IKE key support
PPTP VPN
L2TP VPN

Firewall security via:

Intrusion Detection System
NAT (Network Address Translation)
Policy and service-based filtering
Stateful inspection firewall

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 synchron-
ization PPPoE connection to the ISP with
PAP/(MS)CHAP authentication
IP DIFFSERV for QoS
Mail client to send voice and fax messages
as e-mail attachments (.wav and .tif) and
system notifications
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) Password
control
Remote diagnostics and software upgrade
Auto-provisioning
VoIP Carrier Wizard
Download/restore configuration
Legible and editable configuration files
Auto-configuration of IP phones via TFTP
and HTTP
SNMP Monitoring and Configuration
Third Party Call Control XML RPC
Reset button with factory reset option
Custom Language Pack

Billing
Radius Client (RFCs: 2865, 2866)

Diagnostics/Testing
LEDs: Busy, Info, Fault, LAN, WAN,
Loop settings
Remote testing

Environmental

Physical Dimensions
Desktop devices, wall-mountable:
Measurements: 7.41" x 6.24" x 1.77"
(19 x 16 x 4.5 cm)
Weight: 13 ounces (360 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

Certification

For Australia, Brazil, Canada, European
Community, Mexico, Russia, USA



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