

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 WAN 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 synchronization
 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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