

Quadro[®]2x2



Quadro2x2: Remote or SOHO IP PBX with 2 FXO and 2 FXS Ports

The Quadro2x2 is a fully featured IP PBX for small office use. This solution offers two FXO analog PSTN connection, two FXS analog station ports and up to 24 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 Quadro2x2 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 Quadro2x2 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.

VoIP Carrier Business Class Service

For other installations, the Quadro2x2 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 Quadro2x2 in the users' home and still offer the simplicity of a hosted service managed by a carrier.

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 Quadro2x2 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 IP PBXs.

What are Your VoIP BENEFITS?

- Simple configuration and support
- Based on industry standards
- Limited 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 service
- Unified messaging
- 3-way conferencing
- T.38 fax, fax relay and clear channel fax
- Unified Fax Messaging
- Busy auto-redial
- Directory assistance
- Dial plans (call routing)
- IP Routing
- Call Queue

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 G.711, G.726, G.729 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: T.4, T.30, T.38, V.17, V.21, V.27 ter, V.29)

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:

- 2 FXO ports to the Central Office (RJ11)
- 1 WAN Ethernet 10/100 BASE-T (RJ45)

Phones

IP phones:

- 16 SIP phones by default in PBX mode
- 8 additional SIP phones may be added with feature keys in PBX mode
- 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 16 simultaneous VoIP calls with external parties
- Unlimited station to station calling for IP phones
- Unlimited station to station calling for analog phones
- 2 analog PSTN calls with external parties

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

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
- Virtual LAN (VLAN/IEEE 802.1Q)
- 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.

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

- Telecom: CTR21/TBR21, AS/ACIF

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