

Quadro[®]M26x



QuadroM26x: Small Business Hybrid PBX Solution

Many customers today require the latest VoIP technology but wish to retain their analog telephone investment. The QuadroM26x offers support for 26 analog devices and up to 80 IP phone extensions. In addition, this system supports SIP lines to connect to an internet service provider and eight FXO lines for a medium-size hybrid office environment. Any user on the system, whether they are on an IP or analog phone, will have access to the advanced VoIP features offered on the QuadroM26x. Even remote users will be able to take advantage of the cost-saving and performance-enhancing features.

The QuadroM26x is designed for offices up to 106 users but can offer performance and features usually only available on much larger enterprise products. These features include Automatic Call Distribution (ACD) for call centers, audio conferencing, call recording and barge-in features. Advanced features are purchasable items, so customers can choose what they pay for instead of being locked into a one-size-fits-all solution. Even though the QuadroM26x is designed for medium-size offices, the new owner can be comfortable knowing they are using an enterprise-grade solution backed by Epygi's support and guaranteed reliability.

True VoIP Hybrid Solution

Customers with either IP phones or analog devices demand the latest in telecommunications when purchasing a new PBX. Epygi has always focused on providing the leading edge technology for pure IP or mixed offices from eight users to small enterprises. As with all of our IP PBX solutions, any user of that system has access to the VoIP features, regardless of the endpoint.

Simple Migration Path

The QuadroM26x offers more FXS analog ports and with the addition of the Epygi QuadroFXS 16 gateway, the FXS port count can be even larger. As time continues, new users can be deployed as SIP extensions and eventually even the analog users could move to SIP.

What are Your VoIP BENEFITS?

- Hybrid Flexibility
- Easy Migration
- Latest SIP Technology
- Purpose-Built Appliance

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
- 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
- Automatic Call Distribution*
- Call Recording (20 ports) *
- Barge-in *
- Audio (32 ports)/Video (10 ports)
- Conference Server *

*Requires a software license key

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

POTS Signaling

- Loop start, FSK and DTMF Caller ID support

DTMF

- In band & out of band signaling support

Connectivity

Physical interfaces

Premise connections:

- 2 FXS short-loop FXS ports (RJ-11)
- 24 FXS short-loop FXS ports (RJ-21)
- 1 LAN Ethernet 10/100 BASE-T port (RJ-45)

Uplink connections:

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

Audio port connections:

- Line-in/Line-out (Line-in Signal Level- 0.5 V RMS, Line-out Load Resistance - 600 Ohm to 10K Ohm)

Phones

IP phones:

- 16 SIP phones by default
- 64 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:

- 26 Analog phones (or other analog devices) to connect via FXS ports

Auto Attendants and Virtual Extensions

Auto Attendants:

- Up to 200 standard and custom AA can be registered

Virtual Extensions:

- Up to 200 Virtual Extensions can be registered**

**The total number of extensions used for IP phones, Analog phones, AA and virtual extensions can not exceed 200 extensions.

System Capacity

- Up to 45 simultaneous VoIP calls with external parties
- Unlimited station to station calling for IP phones
- Unlimited station to station calling for analog phones
- 8 analog PSTN calls with external parties

External Storage

- Compact Flash

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). Manual and 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

- Rack-mountable devices:
- Measurements: 19" x 7.56" x 1.77" (48.0 x 19.2 x 4.5 cm)
- Weight: 2.47 lbs.(1090 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

Regulatory Compliance

- Telecom: TBR12/TBR13; AS/ACIF

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