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

epygi®

Telephony

Voice Features
Voice Coding G.711, G.726 (16, 24, 32, 40 Kbps), G.729A, iLBC (13,33 kbit/s , 15,2 kbit/s);
(ITU-T: G711, G.726, G729 Annex A; RFC 3951 :iLBC; IETF;ITU-T Q.23, Q.24, Bell-core GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3)
NAT traversal (both manually and STUN)
VAD, CNG, G.168 echo cancellation.

Video Features:
H.263 and H.264 Pass-through
Point-to-point video call

Bandwidth Requirements
Per call WAN bandwidth requirements for the following codecs (non-encrypted):

Codec	Interval	Bandwidth
G.711	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 kbps

PBX Features
Call blocking, Forwarding, Hold, Transfer
Call relay, Call waiting, Caller ID Detection
Voice mail
Call park, Pickup, Paging, Intercom
Multilevel 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 routng
Call Queue
Voice Mail profile
Automatic Call Distribution
Conference Server
Call Recording
Barge-in

VoIP Data and Signaling Protocols
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, draft-ietf-avt-rfc-2833bis-05, draft-ietf-avt-rtp-ilbc-o5),
Fax over IP (ITU-T: T4, T30, T38, V17, V21, V27 ter, V29)

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

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*

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

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

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 amnd 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 synchro-nization 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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