



QuadroM8L: Small Business IP PBX Solution

Small business customers demand feature-rich and price-competitive IP PBX solutions. The QuadroM8L answers that demand with increased IP ports and enhanced features for medium-sized offices. Now offering eight (8) FXO lines and up to 96 IP phone users, the QuadroM8L allows for large growth for maturing companies. Also added to the QuadroM8L are audio input and output ports for music on hold and paging speaker connections. Additional storage options include a compact flash slot or an external FTP server for recorded calls or system backups.

The QuadroM8L can support up to 45 concurrent calls for 98 users and further enhancing the quality of experience with advanced features. 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 QuadroM8L 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.

Enterprise Features for Small Office

This solution is intended for small to medium offices that demand features and reliability that is normally reserved for very large enterprise customers. The QuadroM8L can cost effectively provide that enterprise-grade product at a small business price.

Future Proof Solution

The QuadroM8L currently supports a number of the latest features on the market today. But as feature demands change, so can this solution with free upgrades. If customers invest in an Epygi solution, they invest in their company's future as well.

What are Your VoIP BENEFITS?

- Low Initial Investment
- Future Proof
- Enterprise Grade
- Hybrid Support



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)

Video Features:

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

VAD, CNG, G.168 echo cancellation.

Bandwidth Requirements
Per call WAN bandwidth requirements for the following codecs (non-encrypted): Ġ.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 60 kbps 20 msec G.726-40 G.729a 20 msec 29 kbps

iLBC PBX Features

Call blocking, Forwarding, Hold, Transfer Call relay, Call waiting, Caller

27 kbps

30 msec

ID Detection Voice mail

Call park, Pickup, Paging, Intercom Multilevel auto attendant with Interactive Voice Response (IVR) and VoiceXMLv2 support

Voice mail with SMS noti cation

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 Uni ed messaging 3-way conferencing Hotline service

T.38 fax, fax relay and clear channel fax

Uni ed Fax Messaging Busy auto-redial Directory assistance Dial plans (call routing) Time of day routing Call Queue Voice Mail pro le 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 (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, 3711, draft-ietf-avt-rfc2833bis-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

In band & out of band signaling support.

please contact

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

Audio port connections: Line-in/Line-out

Phones

IP phones: 32 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:

2 Analog phones (or other analog de vices) to connect via FXS ports

Auto Attendants and Virtual Extensions **Auto Attendants:** Up to 200 standard and custom AA can

be registered

<u>Virtual Extensions:</u> 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

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 con guration Legible and editable con guration les Auto-con guration of IP phones via TFTP and HTTP SNMP Monitoring and Con guration Third Party Call Control XML RPC Reset button with factory reset option **Custom Language Pack**

Radius Client (RFCS: 2865, 2866)

Diagnostics/Testing LEDs: Busy, Info, Fault, LAN, WAN, Loop settinas 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 Itering Stateful inspection rewall 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 noti cations 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

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