

Quadro[®]M32x



QuadroM32x: The Enterprise IP PBX Solution

The QuadroM32x is designed to deliver greater IP Line capacity, reaching 192 registered extensions and 64 concurrent calls. Epygi's largest IP PBX continues to deliver all the features currently found on our existing Quadro line with the addition of some vital enterprise grade tools.

Conferencing and Automatic Call Distribution are a few of the unique features to this product. Third party integration with Unified Multimedia Communications platforms is another key solution for large businesses.

Expanding the digital and analog trunking capacity of the QuadroM32x is simple using Epygi Quadro Gateways. Epygi's FXO, ISDN, and E1/T1 Gateways with the Quadro and QuadroM IP PBX line. This flexibility will allow our customers to satisfy any configuration need.

Integrated Conference Server

Conferencing is a common feature used by today's large organizations. The QuadroM32x features an optional 64 person conference bridge with the same features found on our standalone Quadro Conference Server. The presenter can mute participants, assign speakers and track overall activity. Regular participants can also view the active meeting and can indicate a request to speak during a muted session. This productivity enhancing tool is easily enabled using a software license key.

Redundancy Options

The QuadroM32x also offers a built-in E1/T1 digital trunk interface. This link can be used as the primary interface or as a redundant link while utilizing an ITSP as the primary service. Redundant Ethernet links are also included for secondary failover networks or a voice DMZ.

What are Your VoIP BENEFITS?

- Large capacity
- Increased reliability & redundancy
- True Enterprise grade solution

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
 Redundancy
 Voice Mail profile
 Automatic Call Distribution*
 Call Recording (32 ports) *
 Barge-in *
 Audio (64 ports)/Video (16 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)

CCS Signaling

ITU-T: Q.921, Q.931 (DSS1), Q.951;
 ETSI ETS300 102 (NET5); ECMA-143- (QSIG); SR-NWT-002120 (NI2)
 NTT INS1500 for Japan
 PRI switch types: DSS1, NET5, QSIG, 5ESS,
 NTT INS1500, DMS 100

CAS Signaling

CAS (MELCAS, ITU, ITU-T2, ITU-T: Q.400, Q.411, Q.421, Q.422, Q.440-Q.442, Q.450-Q.452, Q.454, Q.455, Q.457, Q.458, Q.460-Q.468, Q.470-Q.476
 Types: Loop Start, Ground Start; E&M Delay Dial, E&M Wink Start, E&M Immediate Start, E&M FGD
 R2 DTMF, R2 compelled, R2 non-compelled, R2 compelled with ANI, R2 non-compelled with ANI;
 R2 Parameters for Brazil and Mexico etc.)
 ANSI T1.403.02-199, T1.403.02a-2001

Connectivity

Physical interfaces

Premise connections:
 2 short-loop FXS ports (RJ-11)
 1 LAN Ethernet 10/100 BASE T port (RJ45)
 1 Ethernet 10/100 BASE T port (RJ45)
Uplink connections:
 1 E1/T1 port to the Central Office (RJ45)
 1 WAN Ethernet 10/100 BASE T (RJ45)

Phones

IP phones:
 32 SIP phones by default
 Up to 160 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 manufacturers
Analog phones:
 2 Analog phones (or other analog devices) to connect via FXS ports

Auto Attendants and Virtual Extensions

Auto Attendants:
 Up to 400 standard and custom AA can be registered
Virtual Extensions:
 Up to 400 Virtual Extensions can be registered**

**The total number of extensions used for IP phones, Analog phones, AA and virtual extensions can not exceed 400 extensions.

System Capacity

Up to 64 simultaneous VoIP calls with external parties
 Unlimited station to station calling for IP phones
 Unlimited station to station calling for analog phones
 30/24 PSTN calls via E1/T1 with external parties

External Storage

Compact Flash

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.

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 and Windows ActiveX interface)
 Reset button with factory reset option
 Custom Language Pack

Diagnostics/Testing

LEDs: Busy, Info, Fault, LAN, WAN, Loop settings
 Remote testing

Billing and Statistic

Radius Client (RFCs: 2865, 2866), CDRs

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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