

Quadro[®] M12Li



QuadroM12Li: SIP solution for ISDN BRI users

Many countries still primarily use ISDN BRI for their outside lines. However, the users of this type of service demand the new features and flexibility available on SIP-based IP PBX products. The Epygi QuadroM12Li allows the user to connect a traditional outside trunk while also utilizing SIP as an alternative route or main route. In addition, IP phones are supported for all users up to 96 IP users. Forty-five simultaneous calls can be supported via a SIP trunk provider and the six (6) ISDN BRI connects. The ISDN BRI ports support NT and TE selectable mode options and is intended for non-USA markets with ISDN BRI network providers. The QuadroM12Li is also equipped with two (2) FXS ports for analog devices and audio input/output jacks for music on hold and paging.

The QuadroM12Li includes many of the advanced features found in our enterprise-level products. These features include call recording, audio conferencing, Automatic Call Distribution (ACD) for call centers and the barge-in feature pack. Advanced features are purchasable items, so customers can choose what they pay for instead of being locked into a one-size-fits-all solution. An additional value included with the QuadroM12Li is support for HD audio, point-to-point video and other desktop productivity tools. To further simplify a customer's needs, this product includes an integrated firewall, DHCP server and router for LAN management.

SIP Flexibility, Traditional Stability

True SIP solution with ISDN BRI trunk ports for peace of mind. This product has a high density IP phone capacity utilizing traditional ISDN BRI or SIP trunks from an ITSP or remote location. Purpose built appliance with solid state components for added stability.

Enterprise Features for Smaller Offices

This solution is intended for small to medium offices that demand features and reliability that is normally reserved for very large enterprise customers. The QuadroM12Li can cost effectively provide that enterprise-grade product at a small business price.

What are Your VoIP BENEFITS?

- True SIP solution
- Enterprise-level features
- IP phone flexibility
- Video and HD audio

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);
VAD, CNG, G.168 echo cancellation
G.722 Pass-through
Point-to-Point HD call

Video Features:

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

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 routing
Call Queue
Voice Mail profile
Automatic Call Distribution
Conference Server
Call Recording
Barge-in

Supported 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-rfc - 2833bis-05, draft-ietf-avt-rtp-ilbc-05),
Fax over IP (ITU-T: T4, T30, T38, V17, V21, V27 ter, V29)
Voice Coding (ITU-T: G711, G.726, G729 Annex A, RFC 3951 :iLBC; IETF;ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3)
ISDN (ITU-T: Q.921, Q.931 (DSS1), Q.951;ETSI ETS300 102 (NET5); NTT INS1500 for Japan)

POTS

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)
1 LAN Ethernet 10/100 BASE-T port (RJ-45)

Uplink connections:

1 WAN Ethernet 10/100 BASE-T (RJ45)

Uplink connections:

6 ISDN BRI ports to the Central Office or local PBX (RJ45), NT and TE modes supported

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:

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 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
12 ISDN 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 3DES and AES encryption in tunnel mode. 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: TBR3 (ISDN)



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