

# Quadro<sup>®</sup> M26xi



## QuadroM26xi: High Capacity Hybrid ISDN BRI IP PBX Solution

Migration from a traditional telephone system to Voice over Internet Protocol (VoIP) is now even simpler with the QuadroM26xi. This solution offers high density analog FXS ports and digital ISDN BRI CO lines for small and medium businesses expanding to VoIP. The QuadroM26xi offers six (6) ISDN BRI trunk ports, 26 FXS analog station ports and up to 80 IP phones. The ISDN BRI ports support NT and TE selectable mode options. In addition, this PBX has an 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. This solution is intended for non-USA markets with ISDN BRI network providers.

The QuadroM26xi 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 QuadroM26xi 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.

### Migration Strategy

Investing in this solution solves the need for analog and digital port demands and future VoIP needs. The QuadroM26xi is the last hybrid ISDN product small-to-medium-sized businesses will need before a pure VoIP solution is in demand. Invest now for the future.

### Enterprise Features for Smaller Offices

This solution is intended for small enterprise offices that demand features and reliability that is normally reserved for very large enterprise customers. The QuadroM26xi can cost effectively provide that enterprise-grade product at a small business price.

## What are Your VoIP BENEFITS?

- High capacity hybrid 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:

26 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:

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  
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)

Epugi Technologies, Ltd.  
6900 Dallas Parkway, Suite 850  
Plano, Texas 75024  
Tel/Fax: (+1)972.692.1166  
Web: www.epugi.com  
E-mail: sales@epugi.com

please contact