

# QX1000



## Epygi QX1000: Pure SIP Enterprise IP PBX

The Epygi QX1000 introduces a new generation of Epygi products offering increased capacity for IP phones and licensable features. This solution supports 1,000 IP users and can handle 300 concurrent calls to outside parties. Continuing in the direction of Epygi's current award-winning solutions, the QX1000 will provide enterprise customers a fully featured and cost-effective product. Epygi has been enhancing the software for the IP PBX product range for over 10 years, and the same reliable software is now available in the QX1000. A single server solution will provide a high level of stability, but for customers requiring another layer of protection, the QX1000 offers a hot standby option for additional peace of mind.

Enterprise customers demand the latest in technology and the continued development necessary to prepare for the future, and this is why Epygi is the preferred choice. Software upgrades for Epygi products are regularly published at no cost for our customers. Feature development is never ignored to ensure an Epygi investment today offers the latest technology needed for tomorrow. More advanced features are easily enabled at increments to accommodate the customer's growth. Some of these features include Video/Audio Conferencing, Barge-in, ACD for call centers, Call Recording, XML API, QCM softphone and outbound dialer tools. Other exciting tools and features are available without a license, including HotCall Outlook plug-in, Epygi Media Streamer for hold music, Quadro Configuration Console, HotKeyCall and point-to-point video calling.

### Analog and Digital Support

Epygi offers a large range of analog and digital gateways. These gateways can be easily connected to the QX1000 to add connections for analog phones, FXO, ISDN BRI, E1 and T1 trunks. Outside lines can be a mix of analog, digital or IP depending on the customer's particular needs. Regardless of the connection type, the QX1000 can support 300 calls.

### Application Programmers Interface

No one customer is alike, and their required features may vary. The QX1000 can be enabled to support a full XML API for those unique situations. Integration with custom business applications or company websites are a few areas the XML API can enhance what the QX1000 will offer an enterprise customer. The API is always expanding as Epygi works with its customer base to continually enhance the product offering.

## What are Your VoIP BENEFITS?

- Enterprise-grade Solution
- Greatly Increased Capacity
- No Cost Software Upgrades
- Core and Branch Office Solutions

## 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  
 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  
 Redundancy  
 Voice Mail profile  
 Automatic Call Distribution\*  
 Call Recording (152 ports) \*  
 Barge-in \*  
 Audio (288 ports)/Video (104 ports)  
 Conference Server \*  
 Auto Dialer application support\*

\*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  
 DTME  
 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;

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)

## Connectivity

### Physical Interfaces

Network connections:  
 1 Ethernet 10/100/1000 BASE T (RJ45)

### Phones

IP phones:  
 200 SIP phones by default  
 Up to 800 additional SIP phones may be  
 added with feature keys  
 Plug-and-Play with select IP Phone  
 manufacturers

### Auto Attendants and Virtual Extensions

Auto Attendants:  
 Up to 1,200 standard and custom AA can  
 be registered  
Virtual Extensions:  
 Up to 1,200 Virtual Extensions can be  
 registered\*\*

\*\*The total number of extensions used for IP  
 phones, Analog phones, AA and virtual exten-  
 sions can not exceed 1,200 extensions.

### System Capacity

Up to 300 simultaneous VoIP calls with  
 external parties  
 Unlimited station to station calling for  
 IP phones

Emergency Repair Boot-up Device  
 DVD-ROM

## Internet

Firewall security via:  
 Policy and service-based filtering  
 Stateful inspection firewall  
 DHCP server  
 SNTP (Simple Network Time Protocol)  
 server/client for computer clock  
 synchronization  
 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.

## System

### Management

Multilingual WEB interface (HTTP/HTTPS)  
 Password control  
 Remote diagnostics and software upgrade  
 VoIP Carrier Wizard  
 Download/restore configuration  
 Legible and editable configuration files  
 Auto-configuration of IP phones via TFTP  
 and HTTP  
 Third Party Call Control (XML RPC and  
 Windows ActiveX interface)  
 Custom Language Pack

### Billing and Statistic

Radius Client (RFCS: 2865, 2866), CDRs

## Environmental

### Physical Dimensions

Rack-mountable devices:  
 Measurements: 16.8" x 14" x 1.7"  
 (42.6 x 35.6 x 4.3 cm)  
 Weight: 15 lbs (6.8 kg)

### Conditions

50°F - 95°F (10°C - 35°C) operating  
 temperature  
 -31°F - 140°F (-35°C - +60°C) storage  
 temperature  
 5% - 90% non-condensing humidity

### Power Supply

100 - 240V, 50-60Hz, 4 Amp Max

### Regulatory Compliance

Power Supply Safety / EMC  
 USA - UL listed, FCC  
 Canada - CUL listed  
 Germany - TUV Certified  
 Europe/CE Mark  
 EN 60950/IEC 60950-Compliant

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