



QX2000

The QX2000 IP PBX supports offices with up to 2,000 users. Any number of required FXS, FXO, ISDN BRI, E1 and T1 analog or digital ports can be easily added by interconnecting with Epygi QXFXO4, QXISDN4, QXE1T1 and QXFXS24 Gateways. It can connect to the PSTN using Gateways or directly with SIP trunks through an ITSP. In addition, the QX2000 can support up to 300 concurrent calls.

IP phones	200
Additional IP phones with keys	1,800
Total IP phones	2,000
Concurrent calls	300
Ethernet LAN ports	1
Ethernet backup	1

Interconnection with QX Gateways

GATEWAYS	Recommended Number (max)
QXE1T1	16
QXISDN4	32
QXFXO4	32
QXFXS24	80

FFATURES

Telephony

PBX Features

Multi-level Auto Attendant with Interactive Voice Response (IVR) and VoiceXML v2 support

Call blocking, forwarding, hold, transfer, Call Relay and call waiting

Caller ID detection and hiding caller ID

Voicemail system

Voicemail notification via SMS/email Caller ID-based voicemail profile

Call park, call pickup, paging, intercom

Distinctive ringing

Speed dial

Many Extension Ringing

Receptionist Call hunting

Automated call back

from Auto Attendant

Hold music

Call history

Do Not Disturb Global speed dial

Find Me Follow Me

Unified Messaging

Three-way conferencing

G3 fax support: T.38 and clear

channel fax

Universal Extension Recordings

Busy auto redial Directory assistance

Dial plans (call routing), time of

day routing Class of Service

Call queue Redundancy

Automatic Call Distribution (ACD)*

Call Recording (152 ports, total max size is 108 days)*

Barge-In*

Audio (288 ports)/Video (104 ports)

Conference Server*

Auto Dialer application support*

Mobile Toggling*

Licensable PC-Based Applications Desktop Communication Console (DCC)* Auto Dialer*

*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.722 and G.722.1 pass-through point-to-point HD call

Video Coding:

H.263, H.263+ and H.264 pass-through point-to-point video call

VoIP Encryption:

SRTP

VoIP Signaling:

SIP v2, SIP/TLS

DTMF:

In band & out of band signaling support

VoIP Data and Signaling Protocols ITU-T G.711, G.726, G.729 Annex A; IETF RFC 3951- iLBC;

SIP, SIP/TLS (RFCs: 2246, 3261, 3263, 3265, 3311, 3323, 3428, 3515, 3578, 3581, 3842, 3856, 3863, 3891, 3892, 4028, 4235) SDP (RFC: 2327, 4568) RTP/SRTP (RFCs: 1889, 1890, 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:

2 Ethernet 10/100/1000 BASE T (RJ45)

Phones

IP phones:

200 SIP phones by default Up to 1,800 additional SIP phones may be added with feature keys

Plug-and-Play (PnP) with select IP Phone manufacturers

Auto Attendants and virtual extensions Auto Attendants:

Up to 2,400 standard and custom Auto Attendants can be registered

Virtual extensions: Up to 2,400 virtual extensions can be registered**

**The total number of extensions used for IP phones, analog phones, Auto Attendants and virtual extensions can not exceed 2,400.

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

Network

STUN/Network Address Translation (NAT) traversal (RFC 3489)

Firewall security via:

Policy and service-based filtering Stateful inspection firewall

SIP Intrusion Detection System (SIP IDS)

DHCP server on the LAN side

DHCP client on the WAN side

DNS server with forwarding functionality Simple Network Time Protocol (SNTP)

server/client for computer clock

synchronization

PPPoE connection to the ISP with PAP/MS CHAP authentication

IP DIFFSERV for QoS

SIP tunneling

Virtual LAN (VLAN/IEEE 802.1Q)

Mail client to send voice and fax

messages as email attachments (.wav and .tif/.pdf respectively) and system notifications

DNS (DYNDNS) support with third party

System

Management

Multilingual web interface accessible from LAN and WAN (HTTP/HTTPS)

Password control

User rights management

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

SNMP monitoring and configuration Third Party Call Control (3PCC) XML RPC*

Extension status watching (with DCC)

Custom language pack

System event notification via SMS/email

Emergency recovery

Diagnostics/Testing System logs Remote testing Network diagnostics Security diagnostics

System logs, SIP IDS logs

Call capture

Billing and Statistics Radius Client (RFCS: 2865, 2866), Call Detail Records (CDR)

Environmental

Physical Dimensions

Rack-mountable devices:

Measurements:

16.8" x 14" x 1.7" (42.6 x 35.6 x 4.3cm)

Weight:

15 lbs (6.8 kg)

Conditions

Operating temperature: 50°F - 95°F (10°C - 35°C) Storage temperature: -31°F - 140°F (-35°C - 60°C)

Non-condensing humidity: 5% - 90%

Power Supply

100 - 240V, 50-60Hz, 4A (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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