



# QX3000

The QX3000 IP PBX supports offices with up to 3,000 users and up to 500 concurrent calls. Any number of required FXS, FXO, E1 and T1 analog or digital ports can be easily added by interconnecting with Epygi QXFXO4, QXE1T1, QXISDN4 and QXFXS24 Gateways. It can connect to the PSTN using Gateways or directly with SIP trunks through an ITSP.

Capabilities	
IP phones	200

IP phones	200
Additional IP phones with keys	2,800
Total IP phones	3,000
Concurrent calls	500
Ethernet LAN port	1
Ethernet backup	1

## **Interconnection** with **QX Gateways**

GATEWAYS	Recommended Number (max)
QXFXO4	32
QXISDN4	32
QXE1T1	16 (E1 mode) 20 (T1 mode)
QXFXS24	100

### Telephony

**PBX Features** 

Auto Attendant with standard and customizable scenarios

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

Call Park with Paging

Call Park on Auto Attendant

Call back from Auto Attendant

**Emergency Call Alert** 

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

Phone Book

Dial plans (call routing), time of

day routing

Scheduling, Day/Night Switching

Dial & Announce (D&A)

Class of Service

Call queue

Calling Cost Control\*

Redundancy\*

Automatic Call Distribution (ACD)\*

Epygi ACD Console (EAC)\*

Epygi Automatic Outbound Calling (AOC)\*

CRM Integration\*

Call Recording (240 ports)\*

Barge-In\*

Conference Server\*

Audio (288 ports)/Video (104 ports) Auto Dialer application support\*

iQall Advanced Features\*

eQall Softphone\*

**PC-Based Applications** 

Desktop Communication Console (DCC)\* QX-Quadro Configuration Console (QCC)

Epygi Media Streamer (EMS)

Epygi Hotel Console (EHC)\*

Auto Dialer\*

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

Epygi Technologies, LLC 2233 Lee Road, Suite 201 Winter Park, Florida 32789 VoIP Signaling: SIP v2, SIP/TLS

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)

IP Phones

200 IP phones by default

Up to 2.800 additional IP phones may be added with feature keys

All IP phones can be connected both from LAN side or as remote extensions Auto provisioning support for all IP

phones from selected manufacturers PnP configuration support for the most of IP phones from selected

service for some of selected IP phones

manufacturers Auto configuration using OpenVPN

Auto Attendants and virtual extensions

**Auto Attendants:** Up to 3,400 Auto Attendants can be added\*\*

Virtual extensions:

Up to 3,400 virtual extensions can be

System Capacity

Up to 500 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 DNS server with forwarding functionality

Simple Network Time Protocol (SNTP) server/client for computer clock

synchronization IP DIFFSERV for QoS

notifications

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

DNS (DYNDNS) support with third party

**System** 

Management

Multilingual web interface accessible from LAN (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

\* Requires a software license key

\*\* The total number of extensions used for IP phones, Auto Attendants and virtual extensions can not exceed 3,400.

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