



NOTE: Image may be subject to change.

# QX3000

The QX3000 IP PBX supports businesses, with up to 3,000 users and 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 and QXFXS24 Gateways. The QX3000 includes a firewall and SIP Intrusion Detection & Protection System for optimal security. It can connect to the PSTN using Gateways or directly with SIP trunks through an ITSP with no additional equipment.

## Capabilities

IP phones by default	300
Additional IP phones with keys	2,700
Total IP phones	3,000
Concurrent calls	500
Ethernet LAN port	1
Ethernet backup	1

## Interconnection *with* QX Gateways

<b>GATEWAYS</b>	Recommended Number (max)
<b>QXFXO4</b>	32
<b>QXE1T1</b>	16 (E1 mode) 20 (T1 mode)
<b>QXFXS24</b>	100

# FEATURES

## Telephony (Default)

Auto Attendant with standard and customizable scenarios and call history  
Call blocking, forwarding, hold, transfer, Call Ringing 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, multicast paging, intercom  
Distinctive ringing  
Speed dial  
Many Extension Ringing, Call hunting  
Receptionist  
Call Park with Paging  
Call Park on Auto Attendant  
Call back from Auto Attendant  
Emergency Call Alert  
Hold music  
Call history with archiving  
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 by Name  
Phone Book  
Dial plans (call routing), time of day routing  
Scheduling, Day/Night Switching  
Alarm  
Dial & Announce (D&A)  
Class of Service  
Call queue  
Hot Desking  
Media Streamer  
Parent-Child extension configuration  
Local Authentication for making call  
PIN code Barring

## Telephony (Key Required)

Calling Cost Control  
Redundancy  
Automatic Call Distribution (ACD)  
Epygi ACD Console (EAC)  
Epygi Automatic Outbound Calling (AOC)  
AI Transcription

- Voice Mail (VM)/Call Recording (CR) Transcription (with Diarization)
- Voice-Enabled Auto Attendant (IVR)
- Epygi Virtual Assistant (EVA)

Text-to-Speech  
CRM Integration  
Call Recording (240 ports)  
Barge-In  
Conference Server  
Audio (288 ports)/Video (104 ports)  
Auto Dialer application support  
eQall Softphone  
eQall SMS/WhatsApp Messaging  
eQall Receptionist Console  
Third Party Call Control (3PCC) XML RPC

PC-Based Applications  
QX-Quadro Configuration Console (QCC)  
Auto Dialer

## Voice/Video Protocols

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,  
OPUS

### 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)

### IP Phones

300 IP phones by default

Up to 2,700 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  
manufacturers

Auto configuration using OpenVPN  
service for some of selected IP phones  
IP phones Proxy Connection

### 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  
added\*

### 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

Intrusion Detection & Protection System  
(IDS/IPS)

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  
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 (HTTP/HTTPS)  
Password control  
User rights management  
Remote diagnostics and software  
upgrade  
VoIP Carrier Wizard  
Monitoring via ecMON  
Download/restore configuration  
Legible and editable configuration files  
Auto configuration of IP phones via TFTP  
and HTTP  
SNMP monitoring and configuration  
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" x 17" x 1.5" (40.6 x 43.2 x 3.8cm)

#### 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/FCC/CE

EN 60950/IEC 60950

Canada - CUL listed

Europe/CE Mark

EN 60950/IEC 60950-Compliant

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

\*\* Sizes and weight subject to change.  
Verify with factory before ordering.