



# QX500LX

The QX500LX is designed for offices of up to 5,000 users supporting up to 700 concurrent calls to/from external networks. 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. The QX500LX 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	500
Additional IP phones with keys	4,500
Total IP phones	5,000
Concurrent calls	700
Ethernet LAN port	1
Ethernet backup	1

more commendation with an automate	
GATEWAYS	Recommended Number (max)
QXFXO4	32
QXISDN4	32
QXE1T1	20 (E1 mode) 24 (T1 mode)
QXFXS24	100

Interconnection with QX Gateways

# **FEATURES**

#### **Telephony**

**PBX Features** 

Auto Attendant with standard and customizable scenarios and call history 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, 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

Parent-Child extension configuration Local Authentication for making call

PIN code Barring

Calling Cost Control\*

Redundancy\*

Automatic Call Distribution (ACD)\*

Epygi ACD Console (EAC)

Epygi Automatic Outbound Calling

(AOC)\*

Voicemail Transcription\*

CRM Integration\*

Call Recording (320 ports)\*

Barge-In\*

Conference Server\*

Audio (288 ports)/Video (104 ports)

Auto Dialer application support\*

eQall Softphone

eQall SMS/WhatsApp Messaging\*

eQall Receptionist Console\*

**PC-Based Applications** 

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,

. OPUS

Epygi Technologies, LLC 561 Maitland Ave

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**

500 IP phones by default Up to 4,500 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

Auto Attendants and virtual extensions

Auto Attendants: Up to 5,000 Auto Attendants can be added\*

Virtual extensions:

Up to 5,000 virtual extensions can be added\*\*

System Capacity

Up to 700 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 Third Party Call Control (3PCC) XML

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)

Hot plug power supplies with full redundancy option

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 5,400.

> Tel: (+1) 972.692.1166 Web: www.epygi.com E-mail: sales@epygi.com