





The QX500 IP PBX is designed for offices with as many as 500 users. The QX500 can support up to 500 IP devices and 80 concurrent calls. SIP trunking allows for the QX500 to connect directly to an ITSP with no additional equipment. The QX500 includes a firewall and SIP Intrusion Detection for optimal security. E1, T1, FXO, ISDN BRI and FXS ports can easily be provided using the Epygi QX Gateways.

100
400
500
80
1
1
1
1
1

Interconnection with QX Gateways

GATEWAYS	Recommended Number (max)
QXFXO4	24
QXISDN4	12
QXE1T1	3 (E1 mode), 4 (T1 mode)
QXFXS24	16

FEATURES

Telephony

PBX Features

Auto Attendant with 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 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 Phone Book

Authorized Phones

Dial plans (call routing), time of day routing

Scheduling, Day/Night Switching

Alarm

Dial & Announce (D&A)

Class of Service

Call queue

Redundancy

Automatic Call Distribution (ACD)*

Epygi ACD Console (EAC)*

Call Recording (48 ports)*

Barge-In*

Conference Server*

Audio (48 ports)/Video (24 ports) iQall Mobile Toggling*

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.168 echo cancellation 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, G.168-2000, 2002, Q.23, Q.24; IETF RFC 3951- iLBC;

Telcordia (Bellcore) GR.506, GR.181;

ETS_300 659_1,2,3;

SIP, SIP/TLS (RFCs: 2246, 3261, 3263, 3265, 3311, 3323, 3428, 3515, 3578,

Epygi Technologies, Ltd. 2233 Lee Road, Suite 201 Winter Park, Florida 32789 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

Premise connections:

1 LAN Ethernet 10/100/1000 BASE-T

port(RJ-45)

1 Ethernet 10/100 BASE-T port (RJ-45) for redundancy connection

Uplink connections:

1 WAN Ethernet 10/100/1000 BASE-T (RJ45)

Audio port connections:

Line-in/line-out (line-in signal level - 0.5V RMS, Line-out Rload - 6000hm to

10K Ohm)

USB connections:

USB host, type A

USB OTG, mini type AB

IP Phones

100 IP phones by default

400 additional IP phones may be added

with feature keys

All IP phones can be connected both from LAN or WAN 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 800 Auto Attendants can be added

Virtual extensions:

Up to 800 virtual extensions can be added**

System Capacity

Up to 80 simultaneous VoIP calls with external parties

Unlimited station-to-station calling for IP phones

Memory Storage microSD card

Network

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

IPSec VPN with 3DES and AES encryption

in tunnel mode (RFCs: 2402, 2406, 2409) Automatic Internet Key Exchange (IKE)

keying support OpenVPN

PPTP VPN, L2TP VPN

Firewall security via:

Intrusion Detection System (IDS) Network Address Translation (NAT

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

NAT/router with port forwarding and port

System

translation

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* Reset button with factory reset option

Extension status watching (with DCC)

Custom language pack System event notification via SMS/email

Emergency recovery

Diagnostics/Testing

System status LED

Remote testing

Network diagnostics

Security diagnostics System logs, SIP IDS logs

Call capture

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

Environmental

Detail Records (CDR)

Physical Dimensions

Rack-mountable devices:

Measurements: 8.0" x 4.0" x 1.6" (20.5 x 10.5 x 4.0 cm)

Weight: 1.26 lbs. (570 g)

Conditions Operating temperature:

41°F - 104°F (5°C - 40°C) Storage temperature:

41°F - 140°F (5°C - 60°C)

Non-condensing humidity: 5% - 90%

Powering Options Input: 85-264VAC, 47-63Hz, AC Input from type AB mini-USB, Input from 5VDC/2A adapter

Power Consumption 2.7W (idle), 6.5W (max)

Requires a software license key

** The total number of extensions used for IP phones. Auto Attendants and virtual extensions can not exceed 800.

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