



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 port | 1 |
| Ethernet backup | 1 |

Interconnection with QX Gateways

| GATEWAYS | Recommended Number (max) |
|----------|-------------------------------|
| QXFXO4 | 32 |
| QXISDN4 | 32 |
| QXE1T1 | 10 (E1 mode), 13 (T1 mode) |
| QXFXS24 | 80 |

FFATURES

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 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

Scheduling, Day/Night Switching

Alarm

Dial & Announce (D&A)

Class of Service

Call queue

Calling Cost Control*
Redundancy*

Automatic Call Distribution (ACD)*

Epygi ACD Console (EAC)*

Call Recording (152 ports)*

Barge-In*

Conference Server*

Audio (288 ports)/Video (104 ports)

Auto Dialer application support*

iQall Mobile Toggling*

PC-Based Applications

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

Epvai 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

VolP 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

200 IP phones by default

Up to 1,800 additional IP phones may be added with feature keys

All IP phones can be connected 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 2,400 Auto Attendants can be added

Virtual extensions:

Up to 2,400 virtual extensions can be added*

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

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

synchronization

IP DIFFSERV for QoS SIP tunneling

Virtual LAN (VLAN/IEEE 802.1Q)

Mail client to send voice and fax

server/client for computer clock

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

Requires a software license key

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