



QX5000

The QX5000 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. It can connect to the PSTN using Gateways or directly with SIP trunks through an ITSP.

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

Interconnection with **QX Gateways**

GATEWAYS	Recommended Number (max)
QXFXO4	32
QXISDN4	32
QXE1T1	20 (E1 mode) 24 (T1 mode)
QXFXS24	100

FFATURES

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, global speed dialing 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

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)*

CRM Integration*

Call Recording (320 ports)*

Barge-In*

Conference Server*

Audio (288 ports)/Video (104 ports)

Auto Dialer application support*

iQall Advanced Features*

eQall Softphone*

eQall Receptionist Console*

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, . OPUS

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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,

Connectivity

Physical Interfaces

Network connections:

V21, V27 ter, V29)

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

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

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

Download/restore configuration

Legible and editable configuration files Auto configuration of IP phones via TFTP

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) 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.

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