





Capabilities

Audio Out port

SD slot

With the ability to support 20 concurrent calls, the QX60 IP PBX is designed for offices with as many as 64 users. The QX60 can support up to 64 IP devices and 20 concurrent calls. SIP trunking allows for the QX60 to connect directly to an ITSP with no additional equipment. The QX60 includes a firewall and SIP Intrusion Detection & Protection System for optimal security. E1, T1, FXO and FXS ports can easily be provided using the Epygi QX Gateways.

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IP phones	24
Additional IP phones with keys	40
Total phones	64
Concurrent calls	20
Ethernet LAN port	2
Ethernet WAN port	1
Audio In port	1

GATEWAYS	Recommended Number (max)
QXFXO4	5
QXISDN4	2
QXE1T1	1
QXFXS24	3

Interconnection with **QX Gateways**

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

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

Hotline Service

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 (24 ports)*

Barge-In*

Conference Server*

Audio (16 ports) / Video (8 ports)

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.168 echo cancellation, 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, 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, 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

1 Ethernet 10/100 BASE-T port (RJ-45) for dedicated SIP trunk connection

Uplink connections:

1 WAN Ethernet 10/100/1000 BASE-T port (RJ-45)

Audio port connections:

Line-in/line-out (line-in signal level - 0.5V RMS, Line-out R_{load} - 6000hm to

10K Ohm)

USB connections:

USB host, type A

USB OTG, mini type AB

Phones

IP phones:

24 IP phones by default

40 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 250 Auto Attendants can be added**

Virtual extensions:

Up to 250 virtual extensions can be added**

System Capacity

Up to 20 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

PPTP VPN, L2TP VPN

Firewall security via:

Intrusion Detection & Protection System

(IDS/IPS)

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

translation

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

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 RPC*

Reset button with factory reset option

Custom language pack System event notification via SMS/email

Emergency recovery

Diagnostics/Testing

System Status LED

Remote testing

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:

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, analog phones, Auto Attendants and virtual extensions can not exceed 250.

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