





With the ability to support 64 concurrent calls, the QX200 IP PBX is designed for offices with up to 200 employees. The system has four FXO ports in order to connect to the PSTN and two FXS ports for analog phones and fax machines. SIP trunking allows for the QX200 to connect directly to an ITSP with no additional equipment. The QX200 includes a firewall and SIP Intrusion Detection for optimal security. Additional E1, T1, FXO and FXS ports can easily be provided using the Epygi QX Gateways. When rack-mounted and paired with an Epygi QX Gateway, power redundancy provides added protection.

Capabilities	
Analog phones	2
IP phones	24
Additional IP phones with keys	176
Total phones	202
Concurrent calls	64
FXO PSTN ports	4
Ethernet LAN port	1
Ethernet WAN port	1
Audio In port	1
Audio Out port	1
SD slot	1

Interconnection with QX Gateways	
GATEWAYS	Recommended Number (max)
QXFXO4	16
QXE1T1	2 (E1 mode), 3 (T1 mode)
QXFXS24	8

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

Emergency Call Alert

Hold music

Call history

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 plans (call routing), time of day routing

Scheduling, Day/Night Switching

Alarm

Dial & Announce (D&A)

Class of Service

Calling Cost Control*
Call queue

Redundancy*

Automatic Call Distribution (ACD)*

Epygi ACD Console (EAC)*

Call Recording (20 ports)*

Barge-In*

Conference Server*

Audio (32 ports) / Video (16 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

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;

SDP (RFC: 2327, 4568)

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

Epygi Technologies, LLC 2233 Lee Road, Suite 201 Winter Park, Florida 32789 3581, 3842, 3856, 3863, 3891, 3892,

4028, 4235)

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)

POTS Signaling

Loop start

FSK and DTMF caller ID support

FSK message waiting indicator support

Connectivity

Physical interfaces

Premise connections:

2 FXS short-loop FXS ports (RJ-11)

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

Uplink connections:

4 FXO ports to the central office (RJ11)

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

Audio port connections:

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

10K Ohm)

Phones

IP phones:

24 IP phones by default

176 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

Analog phones:

2 analog phones (or other analog devices) to connect via FXS ports

Auto Attendants and virtual extensions Auto Attendants:

Up to 400 Auto Attendants can be added

Virtual extensions: Up to 400 virtual extensions can be added**

System Capacity

Up to 64 simultaneous VoIP calls with external parties

Unlimited station-to-station calling for IP phones

Four analog PSTN calls with external parties

Memory Storage SD 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 System (IDS)

Network Address Translation (NAT) Policy and service-based filtering

Stateful inspection firewall SIP Intrusion Detection System (SIP IDS)

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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 testina

FXO and 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:

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

Weight: 1.28 lbs. (580 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%

0.6A (max)

Powering Options Input: 85-264VAC, 47-63Hz, AC Auxiliary output power: 12.0VDC,

Power Consumption 2.8W (idle), 6.7W (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 400.

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