





The QX100 IP PBX is designed for offices with as many as 128 users. The QX100 can support up to 128 IP devices and 40 concurrent calls. SIP trunking allows for the QX100 to connect directly to an ITSP with no additional equipment. The QX100 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.

Capabilities	
IP phones	32
Additional IP phones with keys	96
Total phones	128
Concurrent calls	40
Ethernet LAN port	1
Ethernet WAN port	1
Audio In port	1
Audio Out port	1
SD slot	1

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GATEWAYS	Recommended Number (max)
QXFXO4	10
QXISDN4	5
QXE1T1	1 (E1 mode), 2 (T1 mode)
QXFXS24	5

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, 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

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

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 (32 ports)*

Barge-In*

Conference Server*

Audio (32 ports) / Video (16 ports)

eQall Softphone*

eQall SMS 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

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,

Connectivity

V27 ter, V29)

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 port (RJ-45)

<u>Audio port connections:</u> 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

Phones

IP phones:

32 IP phones by default

96 additional IP phones may be added with feature kevs

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 300 Auto Attendants can be added**

Virtual extensions:

Up to 300 virtual extensions can be added**

System Capacity

Up to 40 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

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 300.

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