QX3000

The QX3000 IP PBX supports offices with up to 3,000 users and up to 500 concurrent calls. 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. The QX3000 includes a firewall and SIP Intrusion Detection & Protection System for optimal security. It can connect to the PSTN using Gateways or directly with SIP trunks through an ITSP with no additional equipment.

Capabilities

IP phones	200
Additional IP phones with keys	2,800
Total IP phones	3,000
Concurrent calls	500
Ethernet LAN port	1
Ethernet backup	1

Interconnection with QX Gateways

GATEWAYS	Recommended Number (max)
QXFXO4	32
QXISDN4	32
QXE1T1	16 (E1 mode) 20 (T1 mode)
QXFXS24	100

FEATURES

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
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 (240 ports)*
Barge-In*
Conference Server*
Audio (288 ports)/Video (104 ports)
Auto Dialer application support*
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.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;
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 2,800 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 3,400 Auto Attendants can be added**
Virtual extensions:
Up to 3,400 virtual extensions can be added**

System Capacity
Up to 500 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
Intrusion Detection & Protection System (IDS/IPS)
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
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*
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 3,400.