



NOTE: Image may be subject to change.

QX5000

The QX5000 is designed for businesses, supporting up to 5,000 users and 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 and QXFXS24 Gateways. The QX5000 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 by default	500
Additional IP phones with keys	4,500
Total IP phones	5,000
Concurrent calls	700
Ethernet LAN port	1
Ethernet backup	1

Interconnection <i>with</i> QX Gateways	
GATEWAYS	Recommended Number (max)
QXFXO4	32
QXE1T1	20 (E1 mode) 24 (T1 mode)
QXFXS24	100

FEATURES

Telephony (Default)

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
Media Streamer
Parent-Child extension configuration
Local Authentication for making call
PIN code Barring

Telephony (Key Required)

Calling Cost Control
Redundancy
Automatic Call Distribution (ACD)
Epygi ACD Console (EAC)
Epygi Automatic Outbound Calling (AOC)
AI Transcription

- Voice Mail (VM)/Call Recording (CR) Transcription (with Diarization)
- Voice-Enabled Auto Attendant (IVR)
- Epygi Virtual Assistant (EVA)

Text-to-Speech
CRM Integration
Call Recording (320 ports)
Barge-In
Conference Server
Audio (288 ports)/Video (104 ports)
Auto Dialer application support
eQall Softphone
eQall SMS/WhatsApp Messaging
eQall Receptionist Console
Third Party Call Control (3PCC) XML RPC

PC-Based Applications
QX-Quadro Configuration Console (QCC)
Auto Dialer

Voice/Video Protocols

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
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
IP phones Proxy Connection
Auto Attendants and virtual extensions
Auto Attendants:
Up to 5,400 Auto Attendants can be added*
Virtual extensions:
Up to 5,400 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
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
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" x 17" x 1.5" (40.6 x 43.2 x 3.8cm)
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/FCC/CE
EN 60950/IEC 60950
Canada - CUL listed
Europe/CE Mark
EN 60950/IEC 60950-Compliant

* The total number of extensions used for IP phones, Auto Attendants and virtual extensions can not exceed 5,400.

** Sizes and weight subject to change. Verify with factory before ordering.