



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) 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 <u>Video Coding:</u> H.263, H.263+ and H.264 pass-through point-to-point video call <u>VoIP Encryption:</u> SRTP <u>VoIP Signaling:</u> 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 <u>Network connections:</u> 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
 - 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

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 VolP 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: <u>Measurements:</u> 16.8" x 14" x 1.7" (42.6 x 35.6 x 4.3cm) <u>Weight:</u> 15 lbs (6.8 kg)

Conditions <u>Operating temperature:</u> 50°F - 95°F (10°C - 35°C) <u>Storage temperature:</u> -31°F - 140°F (-35°C - 60°C) <u>Non-condensing humidity:</u> 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.

Emergency Repair Boot-up Device DVD-ROM