



QXFX04

The QXFXO4 Gateway is designed to add four additional outside PSTN lines to a corporate phone network when paired with an Epygi QX IP PBX. Integrating this product with any QX IP PBX allows the Gateway to then be managed through the IP PBX's GUI. The system includes a firewall and can be used to IP-enable a legacy analog PBX by connecting the FXO ports to FXS extensions.

FXO PSTN ports	4
Ethernet LAN port	1
Ethernet WAN port	1
Call Routing capable of modifying caller ID or time of day routing	
Firewall, VPN Router, Auto Attendant, Stacking Options, Failover	

FEATURES

Telephony

PBX Features

Auto Attendant with standard and customizable scenarios

Call blocking, unconditional call forwarding

Call history

G3 fax support: T.38 and clear

channel fax

Dial plans (call routing), time of

day routing

Gateway Hosted Survivability

PC-Based Applications

QX-Quadro Configuration Console (QCC) Epygi Media Streamer (EMS)

Voice 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

VoIP Encryption:

SRTP

VoIP Signaling:

SIP v2, SIP/TLS

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, V27 ter, V29)

POTS Signaling

Loop start

FSK and DTMF Caller ID support

Connectivity

Physical Interfaces

Premise connections:

1 LAN Ethernet 10/100 BASE-T

port (RJ-45)

Uplink connections:

4 FXO ports to the central office (RJ11)

1 WAN Ethernet 100 BASE T (RJ45)

System Capacity

4 simultaneous IP-PSTN calls

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)

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)

DNS support with third party

NAT with port forwarding and translation

System

Management

Operation modes: Master/Slave

Easy interconnection with QX IP PBXs

Web interface accessible from LAN and

WAN (HTTP/HTTPS), the WAN management access can be

switched off

Password control

User rights management

Remote diagnostics and software

upgrade

Download/restore configuration

Reset button with factory reset option

Custom language pack

System event notification via SMS/email

Emergency recovery

Diagnostics/Testing

System Status LED

Remote testing

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%

Powering Options

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

0.6A (max)

Power Consumption 2.2W (idle), 5.6W (max)