



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 ports	1
Ethernet WAN ports	1
VPN capability	
Firewall	
Stand-alone or paired with a QX IP PBX	

Telephony

PBX Features
Multi-level Auto Attendant with
Interactive Voice Response (IVR)
and VoiceXML v2 support
Call blocking, unconditional call
forwarding
Call history
G3 fax support: T.38 and clear
channel fax
Dial plans (call routing), time of

Voice Features

day routing

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)

<u>Uplink connections:</u>
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%

Power Supply Input: 85-264VAC, 47-63Hz, AC Auxiliary output power: 12.0VDC, 0.6A (max)

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

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