



QXFXS24

Designed to be added to an IP network, the QXFXS24 Gateway allows existing analog phones to join the new VoIP network. The system is easily stacked for additional capacities and can be installed with any SIP-compliant IP PBX or plug-and-play with an Epygi QX IP PBX. This gateway is unique from other standard FXS gateways because of the numerous included features.

FXS ports	24
Ethernet LAN ports	1
Ethernet WAN ports	1
Call routing table	
Digit manipulation	

Telephony

PBX Features

Call Waiting

Call Detail Records

Dial plans (call routing), time of

day routing

G3 fax support: T.38 and clear

channel fax

PBX Features (supported with QX IP PBX)

Call Blocking, Forwarding, Hold, Transfer,

Call Relay and Call Waiting

Caller ID Detection and Hiding Caller ID

Call Park, Call Pickup

Many Extension Ringing

Call Hunting

Find Me/Follow Me

Voicemail system

Voicemail notification via SMS/email

Caller ID-based voicemail profile

Speed dialing

Hold music

Do Not Disturb

Call Statistics

Unified Messaging

Three-Way Conferencing

G3 fax support: T.38 and clear

channel fax

Unified Fax Messaging

Busy auto-redial

Directory assistance

Dial plans (call routing), time of

day routing

Class of Service

Call Queue

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, 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,

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, SIPS/TLS (RFCs: 2246, 3261, 3263,

3265, 3311, 3323, 3324, 3325, 3428,

3515, 3578, 3581, 3725, 3842, 3856,

3863, 3891, 3892, 4028, 4235)

SDP (RFC: 2+*968/327, 4568)

RTP/SRTP (RFCs: 1889, 1890, 2833, 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

FSK message waiting indicator support

Connectivity

Physical Interfaces

Premise connections:

24 FXS short-loop FXS ports (RJ-21)

1 LAN Ethernet 10/100 BASE-T port (RJ-45)

Uplink connections:

1 WAN Ethernet 10/100 BASE-T (RJ45)

Phones

Analog phones:

24 analog phones (or other analog devices) to connect via FXS ports

Virtual Extensions:

Up to 400 Virtual Extensions can

be registered*

*The total number of extensions used for analog phones and Virtual Extensions in stand-alone mode can not exceed 400.

System Capacity

Up to 24 simultaneous VoIP calls with

external parties

Unlimited station-to-station calling for analog phones

Network

STUN/Network Address Translation

(NAT) traversal (RFC 3489)

IPSec VPN with DES, 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

DNS (DYNDNS) support with third party

NAT with port forwarding and translation

System

Management

Operation modes: stand-alone and PnP

Easy auto configuration with QX IP PBXs

Plug-and-Play (PnP) with QX IP PBXs Multilingual web interface accessible

from LAN and WAN (HTTP/HTTPS)

Password control

User rights management

Remote diagnostics and software

upgrade

Download/restore configuration

Legible and editable configuration files

FXS Lines Gain Control

SNMP monitoring and configuration

Reset button with factory reset option

Custom Language Pack

System event notification via SMS/email

Emergency recovery

Diagnostics/Testing

System status LED

Loop settings

Network diagnostics

Security diagnostics

Remote testing

System logs, SIP IDS logs

Call capture

Billing and Statistics

Radius Client (RFCS: 2865, 2866), CDRs

Environmental

Physical Dimensions

Rack-mountable devices:

Measurements: 8.3" x 7.9" x 1.6" (21.0 x 20.0 x 4.0 cm)

Weight: 2.67 lbs. (1.21kg)

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 0.75A/115VAC, 0.5A/230VAC;