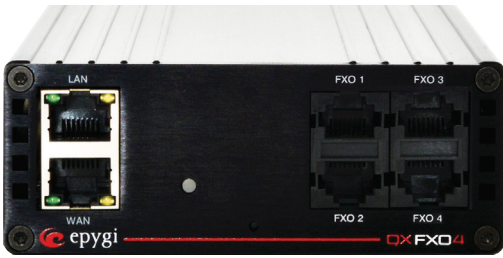


iServ by Epygi - QXFX04 Gateway



The QXFX04 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.

Capabilities

FXO PSTN Ports	4
Ethernet WAN Port	1
Ethernet LAN Port	1
<ul style="list-style-type: none"> • Call routing capable of modifying caller ID or time of day routing • Firewall • VPN Router • Auto Attendant • Stacking Options • Failover* 	

Physical Dimensions: 8.0" x 4.0" x 1.6" (20.5 x 10.5 x 4.0 cm)

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