



THE GLOBAL PHONE NETWORK IN A BOX



QuadroFXO: The Gateway to PSTN, FXO Extension and/or Mini POP

To order, Please call 1-847-252-7100 Email us at sales@teleprime.com

Gateway to the PSTN

The QuadroFXO is a modular approach to adding additional outside PSTN lines (POTS) to phone network that utilizes corporate а Teleprime IP PBX. Each QuadroFXO is a standalone SIP gateway device with 6 outside POTS lines. Multiple QuadroFXO gateways can be added to a Quadro IP PBX depending on how many additional lines are required. Uses include the addition of inbound lines, the balancing of outbound call volumes from a combination of analog and IP phones, fax lines, E911 emergency lines and individual direct dial numbers for each salesperson.

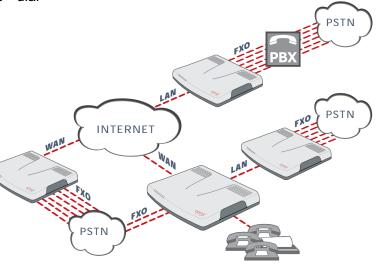
FXO Extension for Quadro IP PBX

Connected via Ethernet to the LAN IP interface of Quadro PBX. QuadroFXO delivers six additional POTS lines for PST calls. Minimal configuration is needed, the Quadro IP PBX will automatically use the new POTS ports and present them within its management system as additional FXOlines. These lines may be co-located with the IP PBX or located remotely as an "extension cord" to another office in another city or even another country.

Technical Data: QuadroFXO

Mini Point of Presence (POP)

The QuadroFXO can be used as a low cost, mini point of Presence (POP). In this configuration you remove the IP PBX altogether by assigning VoIP network DID numbers from an ITSP directly to the QuadroFXO lines. Think of it as a smaller scale alternative to the QuadroE1/T1 gateway. It truly is the lowest cost for creating a local presence anywhere on the globe.



Email: <u>sales@teleprime.com</u> Web: www.teleprime.com



Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbps), G.729, iLBC (13, 33 kbit/s, 15, 2 kbit/s); (RFC 3951, ITU-T: G711, G.723.1 Annex A, G.726, G729 Annex A; IETF; ITU-T Q.23, Q.24, Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3; A-law, m-law coding) NAT traversal (both manually and STUN) VAD, CNG, G.168 echo cancellation

Bandwidth Requirements

Per call WAN bandwidth requirements for the following codecs (non-encrypted):

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G.711a/G.711u	20 msec	84 kbps
G.726-16	20 msec	37 kbps
G.726-24	20 msec	45 kbps
G.726-32	20 msec	52 kbps
G.726-40	20 msec	60 kbps
G.729a	20 msec	29 kbps
G.723	30 msec	21 kbps
ilbc	30 msec	27 kbp

PBX Features

Call block, unconditional forwarding Call statistics Call routing Auto Attendant T.38 fax, fax relay and clear channel fax

Call Signaling

- SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 3311, 3428, 3515, 3842, 3856, 3891, 3892, 3581, draft-ietf-sip-session-timer-15, draft-ietfsipping-dialog-package-O5; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sipping-dialogpackage-05)
- SDP (RFC 2327) RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551,
- 3555, draft-ietf-avt-rfc2833bis-O5, draft-ietf-avt-rtp-ilbc-o5) in band and out of band signaling support
- Fax over IP (ITU-T: T4, T3O, T38, V17, V21, V27 ter, V29)

POTSS signaling Loop start

FSK and DTMF Caller ID support

Connectivity

Extensions

Up to 70 virtual extensions

System Capacity 6 simultaneous IP-PSTN calls

Premise Connections

1 Ethernet 10/100BASET port (RJ45)

Uplink Connection 6 FXO ports to the Central Office (RJ11)

1 Ethernet 10BASET (RJ45)

Billing Radius Client (RFCS: 2865, 2866)

Internet

NAT address translation STUN/NAT traversal (RFC 3489) Firewall security via: NAT (Network Address Translation) Policy and service-based filtering DHCP server on the LAN side DHCP client on the WAN side DNS server with forwarding functionality SNTP (Simple Network Time Protocol) server/client for computer clock synchronization PPPoE connection to the ISP with PAP/(MS)CHAP authentication IP DIFFSERV for QoS DNS support with third party Port forwarding Port translation

System

Management

WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off Password control Remote diagnostics and software upgrade Downoad/restore configuration Reset button with factory reset option

Diagnostics/Testing LEDs: Busy, Info/Fault, FXO1, FXO2, FXO3, FXO4, FXO5, FXO6, LAN, WAN Remote testing and VoIP diagnostics Power-up diagnostics

Environmental

Physical Dimensions

Desktop devices, wall-mountable: Measurements: 7.41" x 6.24" x 1.77" (19 x 16 x 4.5 cm) Weight: 13 ounces (360 g)

Conditions

41°F - 104°F (5°C - 40°C) operating temperature 41°F - 140°F (5°C - 60°C) storage temperature 5% - 90% non-condensing humidity

Power Supply Input 100 - 240 VAC; 50/60 Hz; 0.5 A Output 12.0 VDC; 1.5 A

Regulatory Compliance

EMC: FCC Part 15 Class B; EN55022 Class B, EN55024; Telecom: CTR21/TBR21

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