

THE GLOBAL PHONE NETWORK IN A BOX

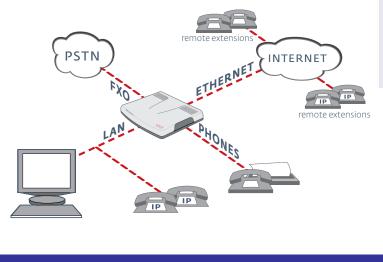


Quadro2x: The IP PBX with 1 FXO Port, 2 FXS Ports and 2 IP Phones

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

The Quadro2x is the fully-featured IP PBX for home offices and teleworkers. Connected by one FXO line to the PSTN and over 10Base-TEthernet to the internet, the Quadro2x allows attaching 2 FXS phones and two fully-featured LAN IP phones (SIP/MGCP). Additional virtual extension allow e.g., registering at various SIP servers.

In addition, all extensions assigned to a line may be mirrored and act as remote IP extensions. Wherever you are, calls will reach you, and you will be able to make calls as if you were in your office.



Fully-Featured IP PBX

The Quadro2x offers a multitude of features including extensive PBX functionality, integrated voice mail, cost saving call routing functionality, IP routing, SIP call signaling and much more.

Integrated Internet Access Router

The Quadro2x IP PBX embodies a fully fledged internet access router with firewall security, including, NAT, policy and service based filtering. An extensive IPSec VPN functionality with DES, 3DES and AES encryption makes an additional contribution to data security.

VoIP Carriers

The Quardro2x IP PBX is easily applicable for VoIP Carriers as well as small business. For VoIP carriers, a special wizard has been implemented that facilitates the configuration of Quardro2x to work according to individual requirements.



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



Telephony

Voice Features

JICE FEATURES Voice Coding G.711, G.723 (5.3, 6.3 kbps), G.726 (16, 24, 32, 40 kbps), G.729, ILBC (13,33 kbps, 15,2 kbps); (RFC 395), ITU-T: G71, G.723,1Annex 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) NAT traversal (both manually and STUN) VAD, CINC, G.168 echo cancellation

VAD, CNG, G.168 echo cancellation Lifeline POTS (single line)

Bandwidth Requirements

Per call WAN bandwidth requirements for the follow-ing codecs (non-encrypted/VPN encrypted): G.711a/G.711u 20 msec 84 kbps/105 kbps

G.726-16 20 msec 37 kbps/59 kbps	
G.726-24 20 msec 45 kbps/65 kbps	
G.726-32 20 msec 52 kbps/74 kbps	
G.726-40 20 msec 60 kbps/80 kbps	
G.729a 20 msec 29 kbps/49 kbps	
G.723 30 msec 21 kbps/34 kbps	
iLBC 30 msec 27 kbps/41 kbps	

PBX Features

Call block, forward, hold, ID, park, relay, transfer, wait Voice mail Multilevel auto attendant with Interactive Voice Response (IVR) Distinctive ring, hold music, speed dialing Many extensions ring Call statistics Do not disturb service Unified messaging 3-way conferencing Hotline service T. 38 fax, fax relay and clear channel fax Unified Fax Messaging Busy auto redial Multiple user extensions (up to 32 physical/virtual/remote extensions)

Call Signaling

All Dig Halling 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-ietf-sipping-dialog-package-05; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sip-ping-dialog-package-05)

- SDP (RFC 2327) RTP (RFC: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rtp-ilbc-o5), in band and out of band signaling support
- OS). In Datid allo out of barne signaling support RTP Proxy MGCP with support of the full MGCP business exten-sions and full screen and soft buttons control of the MGCP phones on the LAN side (RFCs: 3149, 3435, 3660, draft E-foster-mgcp-re-turncodes-on, PKT-SP-EC-MGCP-Ino-040402)
- Fax over IP (ITU_T: T4, T30, T38, V17, V21, V27 ter, V29)

POTS Signaling

Loop start FSK and DTMF Caller ID support

Connectivity

Extensions

Total 70 extensions including FXS phones (2), LAN IP phones (2), remote extensions (4) and virtual extensions

The virtual extensions allow e.g., registering on several SIP servers 4 remote extensions for any FXS extension and any LAN IP phone

LAN IP Phones

2 SIP/MGCP phones Remote IP extensions may be enabled for both SIP/MGCP phones

System Capacity 8 simultaneous VoIP calls with external parties

Unlimited station to station calling for IP phones Unlimited station to station calling for analog phones 1 PSTN call with external parties 2 simultaneous calls through a VPN

Premise Connections

2 short-loop FXS ports (RJ11) 1 Ethernet 10/100BASET port (RJ45)

Uplink Connection

1 FXO ports to the Central Office (RJ11) 1 Ethernet to BASET (R)45) (Cther Quadro IP PBX models offer also ISDN, ADSL or G.SDSL uplink connectivity. Please refer to the corresponding Technical Data Sheets.)

Billing

Radius Client (RFCS: 2865, 2866)

Internet

NAT address translation STUN/NAT traversal (RFC 3489) IPSecVPN with DES, 3DES and AES encryption in tun-nel mode (RFCs: 2402, 2406, 2409) PPTPVPN L2TPVPN Manual and automatic IKE key support Firewall security via: NAT (Network Address Translation) Policy and service-based filtering

- DHCP server on the LAN side

DNS server with forwarding functionality

- Mail client to send voice messages as e-mail attach-ments (.wav) and system notifications
- DNS (DYNDNS) support with third party Port forwarding
- Port translation

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off Password control Remote diagnostics and software upgrade VoIP Carriers wizard Downoad/restore configuration Legible and editable configuration files Auto-configuration via TFTP Reset button with factory reset option

Diagnostics/Testing LEDs: Busy, Info, Fault, USB, LAN, WAN, Line 1, Line 2 IP Call Quality Rating Remote testing and VoIP diagnostics Power-up diagnostics Loop-back testing

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

Regulatory Compliance Safety: UL 60950; CSA 22;

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

Certification:

For Australia, Brazil, Canada, European Community, Mexico, Russia, USA

LT.E. 18JY **C** (US E242666 **ME06** ANATEL 07898908927146



Teleprime Inc. – 1305 Wiley Road, Suite 102, Schaumburg, Illinois 60173 USA Ph: 1-847-252-7100 Fax: 1-847-252-7101

Email: sales@teleprime.com Web: www.teleprime.com

DHCP client on the WAN side 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