



THE GLOBAL PHONE NETWORK IN A BOX

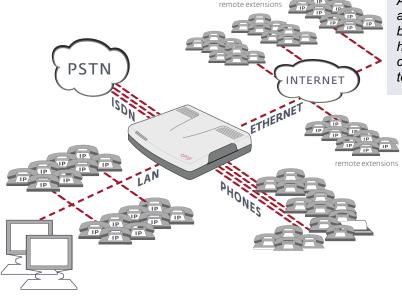


Quadro16xi: The IP PBX with 3 ISDN Ports, 16 FXS Ports and 48 IP Phones

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

The Quadro16xi is the fully-featured ISDN IP PBX for enhanced small businesses. Connected by three ISDN lines to the PSTN and over 10Base-T Ethernet to the internet, the Quadro16xi provides up to 70 physical and virtual extensions to make up to 20 calls in parallel.

Besides 16 FXS phones, 48 fully-featured SIP phones may be attached to Quadro16xi's LAN port. 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 Quadro16xi 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 Quadro16xi 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

As all Quadro IP PBXs, Quardro16xi 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 Quardro16xi to work according to individual requirements.



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Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, Voice Coding G. 71, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbp3), G.729, ILBC (13, 33 kbit/s, 15, 2 kbit/s); (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; IETS_300659_1,2,3) NAT traversal (both manually and STUN) VAD, CMC G.268 ocho angeolation

VAD, CNG, G.168 echo cancellation

Bandwidth Rquirements

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) Directory assistance Distinctive ring, hold music, speed dialing Hunt group 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 70 physical/virtual extensions)

Call Signaling

- All Signaling SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 331, 3428, 3515, 3842, 3856, 389, 3892, 3581, draft-ietf-sip-session-timer-15, draft-ietf-sipping-dialog-package-o5; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sipping-
- dialog-package-o5) 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

RTP Proxy

- MCCP with support of the full MCCP business exten-sions and full screen and soft buttons control of the MCCP phones on the LAN side (RFCs: 3149, 3435, 3660, draf t-foster-mgcp-return-retors) . codes-c PKT-SP-EC-MGCP-I10-040402)
- Fax over IP (ITU_T: T4, T30, T38, V17, V21, V27 ter, V29)

POTS Signaling Loop start

FSK and DTMF Caller ID support

ISDN Signaling ITU-T: Q.921, Q.931, Q.951; ETSI ETS300 102; NTT INS64 for Japan

Connectivity

Extensions

Up to 70 extensions including FXS phones (16), IP phones (up to 48) and virtual extensions) The virtual extensions allow e.g., registering on several SIP servers Remote extensions for any physical extension (up to 64)

LAN IP Phones

16 SIP/MGCP phones; 32 additional SIP/MGCP phones may be added per feature key Remote IP extensions may be enabled for each SIP/MGCP phone

System Capacity 20 simultaneous VoIP calls with external parties Unlimited station to station calling for IP Phones Unlimited station to station calling for Analog Phones 6 simultaneous ISDN calls with external parties 4 simultaneous calls through a VPN

Premise Connections 16 short-loop FXS ports (RJ11)

1 Ethernet 10/100BASET port (RJ45) 1 USB master connection

Uplink Connection

3 ISDN ports to the Central Office (RJ45) 1 Ethernet 10BASET (RJ45) (Other Quadro IP PBX models offer also FXO, ADSL or G.SHDSL uplink connectivity. Please refer to the corresponding Technical Data Sheets.)

USB Expansion

USB memory sticks for additional voice mail storage

Billing

Radius Client (RFCS: 2865, 2866)

Internet

NAT address translation STUN/NAT traversal (RFC 3489) IPSec VPN with DES, 3DES and AES encryption in tun-nel mode (RFCs: 2402, 2406, 2409) PPTPVPN I 2TPVPN Manual and automatic IKE key support Firewall security via: Intrusion Detection System NAT (Network Address Translation) Policy and service-based filtering Stateful inspection firewall 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 Mail client to send voice messages as e-mail attachments (.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
- Online Company Directory

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

Environmental

Physical Dimensions

Desktop devices, wall-mountable: Measurements: 10.04" x 8.27" x 2.4" (25.5 x 21.0 x 6.1 cm) Weight: 30 ounces (850 g)

Rack-mountable devices Measurements: 19" x 7.56" x 1.77" (48.0 x 19.2 x 4.5 cm) Weight: 9.2 lbs. (4.18 kg)

Conditions

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

Power Supply Input 100 - 240 VAC; 50/60 Hz; 0.5A Output 12.0 VDC; 3.5 A

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