



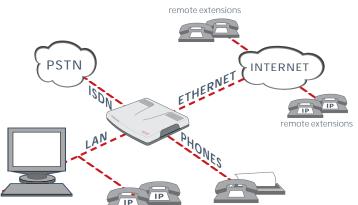


Quadro2xi: The IP PBX with 1 ISDN Port, 2 FXS Ports and 2 IP Phones

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

The Quadro2xi is the fully-featured IP PBX for home offices and teleworkers as the Quadro2x is. The important difference: Quadro2xi offers you an ISDN line instead of FXO and connects you via two B-channels of 64 kbit/s each to the digital PSTN. A 10Base-T Ethernet line provides access to the Internet.

Altogether, two standard phones two fully-featured LAN IP phones (SIP/MGCP) may be attached. 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 at your home office.



Fully-Featured IP PBX

The Quadro2xi 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 Quadro2xi 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 Quardro2xi 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.



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Telephony

Voice Features

Voice Coding G.711, G.723 (5.3, 6.3 kbit/s), G.726 (16, 24, 32, 40 Kbps), G.729, i.B.C (13, 33 kbit/s, 15, 2 kbit/s); (RFC 395), ITU-T G71, 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) 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/VPN encrypted): G.711a/G.711u 20 msec 84 kbps/105 khns G.726-16 20 msec 37 kbps/59 kbps G.726-24 G.726-32 45 kbps/65 kbps 52 kbps/74 kbps 20 msec 20 msec 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 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

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

Hotline service

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-dialogpackage-o5; Presence: RFCs: 3842, 3856, 3863, draft-ietf-sip-ping-dialog-package-o5) SDP (RFC 2327) RTP (RFC: 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 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-foster-mgcp-re-turncodes-o1,

turncodes-o1, PKT-SP-EC-MGCP-l10-040402) 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

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

remote extensions for any FXS extension and any

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

Billing

Radius Client (RFCS: 2865, 2866)

NAT address translation STUN/NAT traversal (RFC 3489)

Internet

Port translation

PPTP\/PNI 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 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

IPSecVPN with DES, 3DES and AES encryption in tun-nel mode (RFCs: 2402, 2406, 2409)

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, 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 (s°C-40°C) operating temperature 41°F-140°F (s°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

EN 60950; FCC Part 15 Class B; EN55022 Class B, EN55024; EN 60950; FMC: Telecom: TBR3 (ISDN);



