

Quadro2xi: The IP PBX with 1 ISDN Port, 2 FXS Ports and 16 IP Phones

The Quadrozxi is a fully-featured IP PBX for home offices and teleworkers as the Quadrozx is. The important difference is that Quadrozxi offers you one 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. The Quadrozxi allows attaching two FXS phones and 8 fully-featured LAN IP phones. The 8 User Expansion increases the total number of LAN IP phones to 16. 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

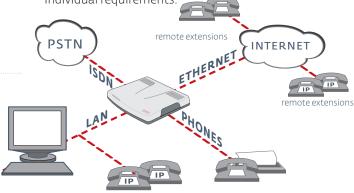
The Quadrozxi offers the same multitude of features as the Quadrozx: extensive PBX functionality, integrated voicemail, cost saving call routing functionality, IP routing, SIP call signaling and much more.

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.

VolP Carriers

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





Telephony

Voice Features

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

PBX Features

Call blocking, Forwarding, Holding, Transferring Call relay, Call waiting, Caller ID Detection

Call park, Pickup, Paging, Intercom Multilevel auto attendant with Interactive Voice Response (IVR) and VoiceXMLv2 support Voice mail with SMS notification

Distinctive ringing Speed dialing Many extension ringing Receptionist

Call hunting, Hiding Caller ID

Automated Call back from Auto Attendant Hold music

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 Directory assistance Dial plans (call routing) Time of day dialing Call Queue

Call Signaling SIP on the WAN and LAN side (RFCs: 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3891, 3892, 3842, 3856, 3863, 4028, 4235)

SDP (RFC 2327) RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-05, draft-ietf-avt-rtpilbc-05),

in band and out of band signaling support

Fax over IP (ITU_T: T4, T30, T38, V17, V21, V27 ter, V29)

POTS Signaling

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 LAN IP Phones remote and virtual extensions All extensions can be registered on several SIP servers

LAN IP Phones

8 SIP phones by default 8 additional SIP phones may be added with a feature Remote IP extensions may be enabled for all SIP

System Capacity

10 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 Up to 4 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)

Internet

STUN/NAT traversal (RFC 3489) IPSecVPN with DES, 3DES and AES encryption in tunnel mode (RFCs: 2402, 2406, 2409). Manual and automatic IKE key support PPTPVPN

L2TPVPN

Firewall security via:

NAT (Network Address Translation) IDS

Policy and service-based filtering Stateful inspection firewall DHCP server on the LAN side

DHCP client on the WAN side
DHS 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 Auto-provisioning VoIP Carrier Wizard Downoad/restore configuration Legible and editable configuration files Auto-configuration of IP phones via TFTP SNMP Monitoring Third Party Call Control XML RPC is available to order Reset button with factory reset option

Custom Language Pack Outlook Feature

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 Weight: 13 ounces (36o 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; 0.5A Output 12.0 VDC; 1.5 A

Regulatory Compliance

ÉN 60950

FCC Part 15 Class B; EN55022 Class B, EN55024; EN 60950;

Telecom: TBR3 (ISDN);



