

Quadro2x: The IP PBX with 1 FXO Port, 2 FXS Ports - up to 16 SIP Phones

The Quadrozx is the fully-featured IP PBX for home offices and teleworkers. Connected by one FXO line to the PSTN and over 10 Base-T Ethernet to the Internet, the Quadrozx allows attaching two FXS phones and 16 fully-featured LAN IP phones. The 12 User Expansion increases the total number of LAN IP phones to 16. Additional virtual extensions 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

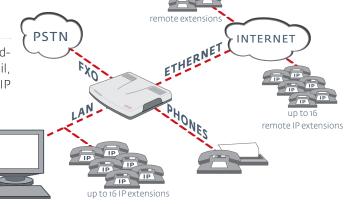
The Quadro2x offers a multitude of features including extensive PBX functionality, integrated voicemail, cost saving call routing functionality, IP routing, SIP call signaling and much more.

Integrated Internet Access Router

The Quadro2x IP PBX embodies a fullyfledged 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 Quadro2x 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 Quadro2x to work according to individual requirements.





Telephony

Voice Features

Nice reactures:
Voice Coding G, 711, G.723 (5, 3, 6, 3 kbit/s), G, 726 (16, 24, 32, 40 kbps), G, 729A, iLBC (13, 33 kbit/s, 15, 2 kbit/s), (ITU-T: G,71, G,723, 1Annex A, G,726, G,729Annex A; RFC (1TU-T: G,71, G,723, 1Annex A, G,726, G,729Annex A; RFC (1TU-T: G,71, G,723, 1Annex A, G,726, G,729Annex A; RFC (1TU-T: G,71, G,723, Annex A, G,726, G VAD. CNG. G.168 echo cancellation Lifeline POTS (single line) on line 1

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

PBX Features

Call blocking, Forwarding, Holding, Transferring
Call relay, Call waiting, Caller ID Detection Voice mail Voice mail
Call park, Pickup, Paging, Intercom
Multilevel auto attendant with Interactive Voice
Response (IVR) and VoiceXMLvz 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)

RTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, draft-ietf-avt-rfc2833bis-o5, draft-ietf-avt-rtpillac-os) in band and out of band signaling support

RTP Proxy

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

POTS Signaling

FSK and DTMF Caller ID support

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

4 SIP phones by default 16 additional SIP phones may be added with a feature key Remote IP extensions may be enabled for all SIP phones

System Capacity
10 simultaneous VoIP calls with external parties Unlimited station to station calling for IP phones
Unlimited station to station calling for analog phone 1 PSTN call 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 FXO port to the Central Office (RJ11)
1 Ethernet 10BASET (RJ45)
(Other Quadro IP PBX models offer also ISDN or ADSL
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 (KE key support **PPTPVPN**

L2TPVPN

Firewall security via:

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 Auto-provisioning VoIP Carrier Wizard voir-Carrier wizard
Downoad/restore configuration
Legible and editable configuration files
Auto-configuration of IP phones via TFTP
SNMP Monitoring
Reset button with factory reset option . Custom Language Pack

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)

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; 1.5A

Regulatory Compliance

UL 60950; CSA 22 EMC: FCC Part 15 Class B; EN55022 Class B, EN55024; Telecom: CTR21/TBR21

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





















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