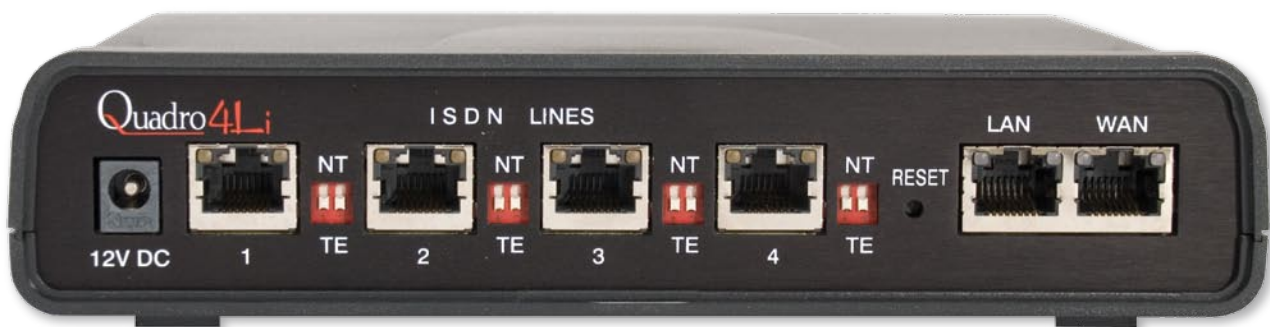


Quadro[®]4Li



Quadro4Li: The IP PBX with 4 ISDN BRI Ports

The Quadro4Li is ideal for the small businesses which require IP PBX features only available in large enterprise solutions. The four ISDN BRI lines allow this solution to offer higher concurrent calls for busy offices, allowing 8 PSTN and 12 VoIP calls.

It economically delivers a wealth of IP PBX features and Key System benefits. Voice mail, auto attendant, on-hold music or messaging, caller ID with distinctive ringing, call pickup, paging and intercom and many other features are included. Sophisticated auto-recognition and auto-configuration capabilities simplify installation and operation. The administrator can modify automatic assignments through the graphical user interface.

High Density Solution

With the choice of 4 ISDN BRI ports or using an Internet Telephony Service provider, the number of concurrent calls is greatly increased. Supporting up to 18 extensions, this SMB solution is a perfect fit for large offices. The available features on the Quadro4Li remain the same as with other Quadro IP PBX models.

Legacy Phone System Replacement

Epygi designed the Quadro4Li for deployment right out of the box as a turnkey solution. Using advanced plug-and-play IP phones and multiple ISDN BRI ports for PSTN access, this IP PBX is fully featured without the expensive feature licenses. As a bonus, Epygi allows the BRI ports to operate in NT mode to support legacy BRI phones.

What are Your VoIP BENEFITS?

- NT and TE Mode Support
- PBX Feature Flexibility
- Turn Key Installation
- ISDN or IP Options



Telephony

Voice Features

Voice Coding G.711, G.726 (16, 24, 32, 40 Kbps), G.729, iLBC (13, 33 kbit/s, 15, 2 kbit/s); (RFC 3951, ITU-T: G.711, G.726, G.729 AnnexA; IETF; GR.181; A-law, μ -law coding)

NAT traversal (both manually and STUN)

VAD, CNG, G.168 echo cancellation; Reduced simultaneous channel capacity; Supported Called ID standard ETS_300659_1,2,3

Bandwidth Requirements

Per call WAN bandwidth requirements for the following codecs (non-encrypted/VPN encrypted):

G.711	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
iLBC	30 msec	27 kbps/41 kbps

PBX Features

Call blocking*, Forwarding, Hold, Blind Transfer and Transfer with consultation*
 Call relay*, Call waiting*
 Caller ID Detection, Voice mail
 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*
 T.38 fax, fax relay and clear channel fax*
 Unified Fax Messaging*
 Busy auto-redial*
 Directory assistance*
 Dial plans (call routing)*
 IP Routing*
 Call Queue*
 Key System Emulation

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-rfc-2833bis-05, draft-ietf-avt-rtp-ilbc-05), in band and out of band signaling support
 RTP Proxy
 Fax over IP (ITU T: T4, T30, T38, V17, V21, V27 ter, V29).

ISDN Signaling

ITU-T: Q.921, Q.931 (DSS1), Q.951;
 ETSI ETS300 102 (NET5); NTT INS1500 for Japan

* Features not available in Key System Emulation Mode

Connectivity

LAN IP Phones

10 SIP phones
 8 additional SIP phones may be added with a feature key
 Remote IP extensions may be enabled for all IP phones.

System Capacity

12 simultaneous VoIP calls with external parties
 Remote IP extensions may be enabled for all IP phones.

Premise Connection

IP Phones
 1 Ethernet 100BASE T (RJ45).

Uplink Connection

1 Ethernet 10BASE T (RJ45)

ISDN Connection

4 ISDN ports to the Central Office or local PBX (RJ45), NT and TE modes supported

Billing

Radius Client (RFCs: 2865, 2866)

Extensions

Up to 100 extensions including virtual, remote and local.
 Extensions can be registered on different SIP servers.

Internet

STUN/NAT traversal (RFC 3489)
 IPsec VPN with DES, 3DES and AES encryption in tunnel mode (RFCs: 2402, 2406, 2409). Manual and automatic IKE key support
 PPTP VPN
 L2TP VPN
 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
 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 and fax messages (.wav and .tif) as e-mail attachments and system notifications.
 DNS (DYNDNS) support with third party NAT/Router with port forwarding and port translation

System

Management

Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS), Password control
 Remote diagnostics and software upgrade
 Auto-provisioning
 VoIP Carrier Wizard
 Download/restore configuration
 Legible and editable configuration files
 Auto-configuration of IP phones via TFTP and HTTP.
 SNMP monitoring and configuration
 Third Party Call Control XML RPC is available to order
 Reset button with factory reset option
 Custom Language Pack
 Outlook Feature
 Hot Call

Diagnostics/Testing

LEDs: Busy, Info/Fault
 ISDN diagnostics
 Remote testing and VoIP diagnostics
 Power-up diagnostics

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 A

Regulatory Compliance

Safety: UL 60950; CSA 22;
 EMC: FCC Part 15 Class B;
 EN55022 Class B, EN55024;
 Telecom: TBR3 (ISDN)

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