epygi®

QXISDN4

The QXISDN4 Gateway includes four ISDN BRI connections for phones and analog devices to connect to a company's central office or local PBX. It is designed to add inbound lines and balance outbound call volumes. It's a stand-alone SIP Gateway device that includes a VPN router, firewall, VPN capability and an Auto Attendant for two-stage dialing. Integrating this product with any QX IP PBX allows the Gateway to then be managed through the IP PBX's GUI.

ISDN BRI ports	4
Ethernet LAN ports	1
Ethernet WAN ports	1
VPN router	
Firewall	
HTTP server	

FEATURES

Telephony

PBX Features
- Multi-level Auto Attendant with Interactive Voice Response (IVR) and VoiceXMLv2 support
- Call Blocking, unconditional call forwarding
- Call Detail Records
- G3 fax support: T.38 and clear channel fax
- Dial plans (call routing), time of day routing

Voice Features

Voice Coding:
- G.711, G.726 (16, 24, 32, 40 Kbps), G.729A, iLBC (13,33 kbit/s, 15,2 kbit/s); VAD, CNG, G.168 echo cancellation

VoIP Encryption:
- SRTP

VoIP Signaling:
- SIP, SIP/TLS

DTMF:
- In band & out of band signaling support

VoIP Data and Signaling Protocols
- ITU-T G.711, G.726, G.729 Annex A;
- IETF RFC 3951- iLBC;
- SIP, SIPS/TLS (RFCs: 2246, 3261, 3263, 3265, 3311, 3323, 3324, 3325, 3428, 3515, 3578, 3581, 3725, 3842, 3856, 3863, 3891, 3892, 4028, 4235)
- SDP (RFC: 2327, 4568)
- RTP/SRTP (RFCs: 1889, 1890, 2833, 3389, 3550, 3551, 3555, 3711, 4733, 3952)
- Fax over IP (ITU-T: T4, T30, T38, V17, V21, V27 ter, V29)

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

ISDN Features
- Supported modes: NT/TE
- BRI expansion for QX IP PBXs

Connectivity

Physical Interfaces

Premise connections:
- 1 Ethernet 10/100BASE TX port to connect a PC for configuration purposes (RJ45)

Uplink connections:
- 1 Ethernet 10/100BASE TX (RJ45)

ISDN Connection
- 4 ISDN BRI ports to the central office or local PBX (RJ45), NT and TE modes supported

System Capacity
- 8 simultaneous IP PSTN calls

Network

- STUN/Network Address Translation (NAT) traversal (RFC 3489)
- IPSec VPN with DES, 3DES and AES encryption in tunnel mode (RFCs: 2402, 2406, 2409)
- Automatic Internet Key Exchange (IKE) keying support
- PPTP VPN, L2TP VPN
- Firewall security via:
  - Intrusion Detection System (IDS)
  - Network Address Translation (NAT)
  - Policy and service-based filtering
  - Stateful inspection firewall
- SIP Intrusion Detection System (SIP IDS)
- DHCP server on the LAN side
- DHCP client on the WAN side
- DNS server with forwarding functionality
- Simple Network Time Protocol (SNTP) server/client for computer clock synchronization
- PPPoE connection to the ISP with PAP/MS CHAP authentication
- IP DIFFSERV for QoS
- SIP tunneling
- Virtual LAN (VLAN/IEEE 802.1Q)
- DNS support with third party
- NAT with port forwarding and translation

System

Management
- Operation modes: Master/Slave
- Easy interconnection with QX IP PBXs
- Web interface accessible from LAN and WAN (HTTP/HTTPS), the WAN management access can be switched off
- Password control
- User rights management
- Remote diagnostics and software upgrade
- Download/restore configuration
- Reset button with factory reset option
- Custom Language Pack
- System event notification via SMS/email
- Emergency recovery

Diagnostics/Testing
- System Status LED
- Remote testing
- ISDN and network diagnostics
- Security diagnostics
- System logs, SIP IDS logs
- Call capture

Billing and Statistics

Radius Client (RFCS: 2865, 2866), CDRs

Environmental

Physical Dimensions

Rack-mountable devices:

Measurements:
- 8.0” x 4.0” x 1.6” (20.5 x 10.5 x 4.0 cm)

Weight:
- 1.28 lbs. (580 g)

Conditions

Operating temperature:
- 41°F - 104°F (5°C - 40°C)

Storage temperature:
- 41°F - 140°F (5°C - 60°C)

Non-condensing humidity:
- 5% - 90%

Power Supply
- Input: 85-264VAC, 47-63Hz, AC 0.4A/115VAC, 0.2A/230VAC;
- Output: 12.0VDC; 1.25A

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