The QXISDN4 Gateway includes four ISDN BRI ports to connect to an ISDN PBX. It can also connect to the ISDN lines from a central office or direct to an ISDN phone. 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 with standard and customizable scenarios. Integrating this product with any QX IP PBX allows the Gateway to then be managed through the IP PBX’s GUI.

The QXISDN4+ activation license key is available to purchase for the QXISDN4. Once the QXISDN4+ activation license key has been installed and activated, the Gateway will function as an IP PBX and cannot be changed back. The QXISDN4+ can support 16 IP phones by default and all the applicable QX50 features that can be purchased and activated. The QXISDN4+ doesn’t support Audio In, Audio Out and a SD card.

### Capabilities

<table>
<thead>
<tr>
<th>Feature</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISDN BRI ports</td>
<td>4</td>
</tr>
<tr>
<td>Ethernet LAN port</td>
<td>1</td>
</tr>
<tr>
<td>Ethernet WAN port</td>
<td>1</td>
</tr>
<tr>
<td>Call Routing capable of modifying caller ID or time of day routing</td>
<td></td>
</tr>
<tr>
<td>Firewall, VPN Router, Auto Attendant, Stacking Options, Failover</td>
<td></td>
</tr>
</tbody>
</table>
# FEATURES

## Telephony

**PBX Features**
- Auto Attendant with standard and customizable scenarios
- Call blocking, unconditional call forwarding
- Call history
- G3 fax support: T.38 and clear channel fax
- Dial plans (call routing), time of day routing
- Caller ID detection

### Additional PBX Features*
- Voicemail system, voicemail notification via SMS/email, caller ID-based voicemail profile
- Call park, call pickup, paging, intercom
- Distinctive ringing, Do Not Disturb
- Many extension ringing, call hunting
- Speed dial, global speed dial
- Receptionist
- Automated call back from Auto Attendant
- Hold music
- Find Me / Follow Me
- Unified Messaging
- Three-way conferencing
- Universal Extension Recordings
- Busy auto redial
- Directory assistance
- Phone Book
- Class of Service
- Calling Cost Control**
- Redundancy**
- Call Recording** (12 ports)
- Barge-In**
- Conference Server**
- Auto Dialer**

### ISDN Features
- Auto Attendants and virtual extensions
- Unlimited station-to-station calling for IP phones
- Up to 16 simultaneous VoIP calls with external parties
- Unlimited station-to-station calling for IP phones
- 16 SIP phones by default
- All SIP phones can be connected both from LAN or WAN side
- Plug-and-Play (PnP) with selected IP Phone manufacturers

### System Features
- Auto and virtual extensions
- Auto Attendants:
  - Up to 200 Auto Attendants can be registered
- Virtual extensions:
  - Up to 200 virtual extensions can be registered**

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

### Connectivity
- Physical Interfaces
  - Premise connections:
    - 1 Ethernet 10/100BASE TX port to connect a PC for configuration purposes (RJ45)
  - ISDN Connection:
    - 4 ISDN BRI ports to the central office for QX IP PBXs
  - Premise connections:
    - 1 Ethernet 10/100BASE TX (RJ45)

## 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
- 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

### Environmental
- Rack-mountable devices:
  - Measurements:
    - 11.9 in. x 11.9 in. x 3.7 in. (30.2 x 30.2 x 9.4 cm)
    - 5.3 lbs. (2.9 kg)
  - Weight:
    - 1.28 lbs. (580g)
- 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%
- Powering Options
  - Input: 85-264VAC, 47-63Hz, AC
  - Auxiliary output power: 12.0VDC, 0.6A (max)
- Power Consumption
  - 2.25W (idle), 4.6W (max)

## Network

### Network
  - STUN/Network Address Translation (NAT) traversal (RFC 3489)
  - IPSec VPN with 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

## VoIP Data and Signaling Protocols
- ITU-T G.711, G.726, G.729 Annex A
- IETF RFC 3951 - ILBC
- SIP, SIP/TLS (RFCs: 2246, 3261, 3263, 3265, 3311, 3323, 3428, 3515, 3578, 3581, 3842, 3856, 3863, 3891, 3892, 4028, 4235)
- SDP (RFC: 2327, 4568)
- RTP/RTCP sinful protocol
- Radius Client (RFCs: 2865, 2866), Call Detail Records (CDR)
- TC-2KXISDN4-Let-08

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