TELEPRIME™
"Connecting Technology to People Worldwide"™

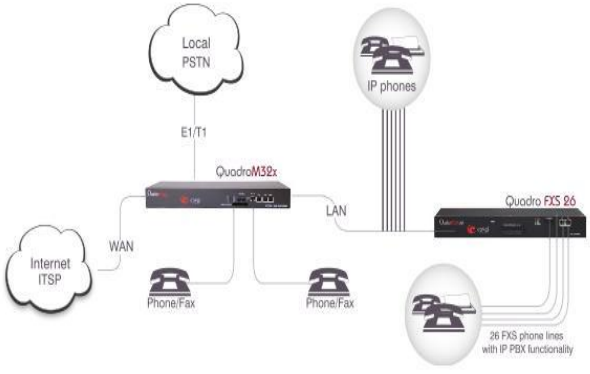
Quadro® FXS 26

Quadro FXS 26: Analog Telephone to Session Internet Protocol(SIP) Gateway

Analog telephones are present in most corporate telephone networks, but this should not discourage companies from moving to an IP solution. The Quadro FXS 26 gateway allows up to 26 analog phones to communicate with a new VoIP network. The transition will have a minimal impact on the analog phone users and also allows them to get more out of the phone on their desk. By installing an IP PBX as the new core telephone system, users will benefit from new features only available on the upgraded system. An **Teleprime** FXS gateway grants analog phone users access to some of these features while the company's existing telephone network matures to an IP-enabled network in the future.

IP PBX integration

The Quadro FXS 26 gateway can be connected to any open standards SIP PBX to support analog phones. The installation of an **Teleprime** VoIP solution yields additional benefits and simplifications for the telephone network. This solution will plug and play with the QuadroM and QX1000 IP PBXs on the same LAN and can be managed directly from the administrator interface on the **Teleprime** IP PBX. FXS ports are mapped to available lines on the **Teleprime** PBX, so they are part of the PBX dialing plan, just like any exten-sion on the system.



What are Your VoIP BENEFITS?

- Easy PnP Installation
- Retain Analog Investment
- Reliable VoIP TechnologySingle
- Interface Management

Features

Telephony

PBX Features
- Call waiting
- Call statistics
- Dial plans (call routing),
- Time of day routing
- External Voice Mail

PBX Features (supported with QuadroM IP PBX)
- Call blocking, Forwarding, Hold, Transfer
- Call relay, Call waiting, Caller ID Detection, Hiding Caller ID
- Call park, Pickup
- Many extension ringing
- Call hunting
- Voice mail
- SMS notification for Voice Mail
- Voice Mail profile
- Speed dialing
- Hold music
- Do Not Disturb
- 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)
- Time of day routing
- Call Queue
- Call statistics

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 G711, G.726, G729 Annex A; IETF RFC 3951- iLBC; ITU-T Q.23, Q.24; Bellcore GR.506, GR.181; ITU-T G.168-2000, 2002; ETS_300659_1,2,3; 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)

POTS Signaling
- Loop start
- FSK and DTMF Caller ID support

Connectivity

Physical Interfaces

Premise connections:
2 FXS short-loop FXS ports (RJ-11)
24 FXS short-loop FXS ports (RJ-21)
1 LAN Ethernet 10/100 BASE-T port (RJ-45)

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

Phones

Analog phones:
26 Analog phones (or other analog devices) to connect via FXS ports

Virtual Extensions:
Up to 200 Virtual Extensions can be registered*

*The total number of extensions used for Analog phones and virtual extensions can not exceed 200 extensions.

System Capacity
- Up to 26 simultaneous VoIP calls with external parties
- Unlimited station to station calling for analog phones

System

Management
- Auto-configuration with QuadroM and QX1000 IP PBXs
- Plug and play with QuadroM and QX1000 IP PBXs
- Multilingual WEB interface accessible from LAN and WAN (HTTP/HTTPS)
- Password control
- Remote diagnostics and software upgrade
- Download/restore configuration
- Legible and editable configuration files
- FXS Lines Gain Control
- SNMP Monitoring and Configuration
- Reset button with factory reset option
- Custom Language Pack

Billing
Radius Client (RFCS: 2865, 2866)

Diagnostics/Testing
- LEDs: Busy, Info, Fault, LAN, WAN,
- Loop settings
- Remote testing

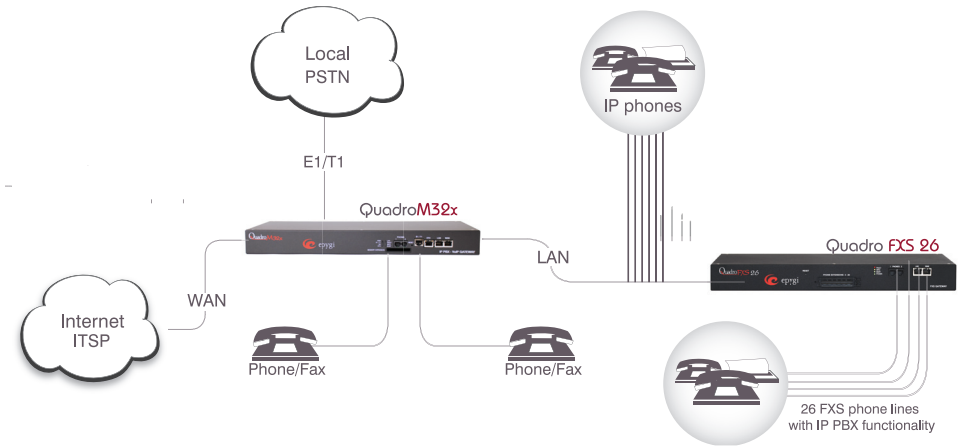
Internet

- 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:
- Intrusion Detection System
- 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
- Virtual LAN (VLAN/IEEE 802.1Q)
- DNS (DYNDNS) support with third party NAT/Router with port forwarding and port translation.

Environmental

Physical Dimensions
- Rack-mountable devices:
- Measurements: 19" x 7.56" x 1.77" (48.0 x 19.2 x 4.5 cm)
- Weight: 2.47 lbs.(1090 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

Regulatory Compliance
- Telecom: TBR12/TBR13; AS/ACIF