

VoIP!Edge™ Q-2FXS, Q-4FXS

Proven effective, low-cost VoIP gateway for IP-based Voice and Real-Time Fax Communication

Designed and built for use in Call Shop operation Works with Q-Regime to provide full-service for Prepaid & Post-paid Telephone Service Provision operation and International Call Termination by EcoCarrier at extremely low rates

Ideal also for use by SOHO



Q-4FXS shown

APPLICATIONS

For use as a standalone VoIP gateway for a telephone service provision business in a Call Shop operation

- connect individual regular analog telephones into Q-2FXS or Q-4FXS and use it to provide prepaid or post-paid Long Distance Telephone Call service to customers for 2 or 4 calls simultaneously in a Call Shop operation
- all Long Distance Calls are automatically placed through QiiQ Q-Regime to call destination telephone numbers by the international call termination service of EcoCarrier at extremely low rates – providing the Call Shop operator with significant competitive advantage

When supported by Q-Regime, the deployment VoIP!Edge Q-2FXS or Q-4FXS or any of the other VoIP!Edge VoIP gateways is highly scalable – to increase the line capacity of the VoIP service simply add more units of VoIP!Edge.

For use in conjunction with VoIP!Edge Q-4FXO and Tenor Digital in a VoIP-based telephone service network of an enterprise

- small offices of the enterprise and home offices of employees of the enterprise may use VoIP!Edge Q-2FXS and VoIP!Edge Q-1FXS for a low-cost way of equipping the offices for IP telephony
- creation of a virtual private telephone network that is implemented with facility for inter-company dialing and call traffic data record and accounting that enhance the business operation of the enterprise
- Long Distance Calls outside the enterprise's Virtual Private Telephone Network are automatically placed through QiiQ Q-Regime to call destination telephone numbers by the international call termination service of EcoCarrier at extremely low rates – providing the enterprise with significant savings in telephone communication expense

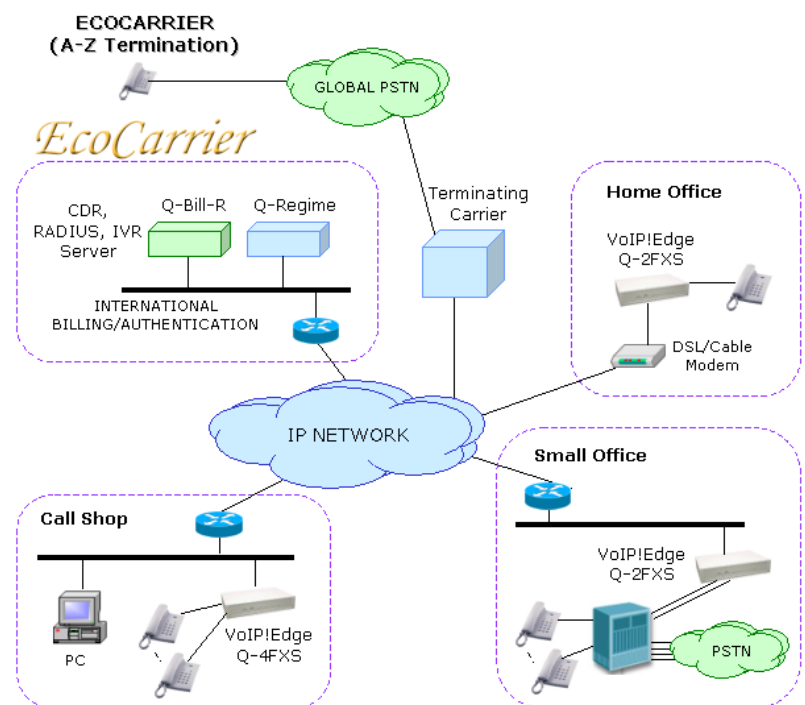
No Extra Installation Cost

if you already have

- a LAN (Local Area Network)
- access to the Internet, WAN (Wide Area Network) for data communication, VPN (Virtual Private Network), or Frame Relay network or Leased Line
- access to Internet through DSL or Cable Modem
- access to Internet through 56K modem or on an ISDN line

Identified Savings provided by VoIP!Edge Q-2FXS or Q-4FXS

- the cost of installation of 2 or 4 telephone lines eliminated respectively
- the monthly telephone line charge of 2 or 4 lines eliminated respectively
- Long Distance Charges for calls on 2 or 4 lines eliminated respectively



FEATURES DESCRIPTION

TECHNICAL FEATURES

- ITU-T H.323 v3 compliance or SIP (two separate versions)
- Audiocodes' Voice Packetizing technology to ensure the best DSP-based voice quality
- Automatic discovery of Gatekeeper on the Internet
- Facility for selection to operate in peer-to-peer mode (in this case no Gatekeeper is needed)
- E.164 Common Dial Plan
- DTMF Dialing
- DTMF detection / generation
- TFTP/FTP software upgrade – this feature enables positive transfer of software to remote Q-2FXS or Q-4FXS for upgrading its embedded software
- Remote configuration / reset
- MS-NetMeeting v3.0 compatible – anyone using NetMeeting can set up a peer-to-peer VoIP communication with Q-2FXS or Q-4FXS
- Support fixed IP address and DHCP
- Support PPPoE for ADSL internet connection
- Provide QoS function with TOS (Type of Services) setting – this feature lets the appropriate router to give priority treatment to the voice data traffic over the non-voice data traffic
- Provide T.38/FAX and voice Auto-Switching – this feature enables Q-2FXS or Q-4FXS to distinguish a fax call from a voice call and send it as real-time fax to T.38 specification
- Hot Line Service for automatic calling to a predetermined IP destination

MANAGEMENT FEATURES

Three easy ways for system configuration, debugging, and maintenance

- Console port: RS-232C port
- TELNET
- Web browser

INTERFACE

- A 10BaseT Ethernet RJ45 port for connection to the Hub of a LAN or cable modem or ADSL modem
- A 10BaseT Ethernet RJ45 port for connection to a computer or other network device
- Asynchronous Console RS-232C DB-9 connector for configuration of the unit to suit a specific application
- 2 or 4 Analog (FXS) RJ-11 ports for connection with 2 or 4 regular analog telephones or the analog CO ports of a PBX
- 12 VDC input (external 100 – 240 VAC input adaptor provided)

FXS INTERFACE

- 2-wire loop start
- Programmable AC impedance, feeding voltage, ring voltage, ring cadence, loop current, and call progress tone
- On-hook Voltage: 48 VDC
- Ring Voltage: 45 Vrms
- Loop Current: Constant 23 mA

AUDIO FEATURES

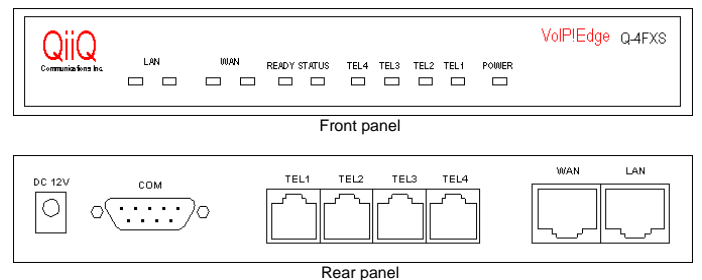
- Codec – G.711 A/u-Law, G.723.1, G.729A (optional)
- VAD (Voice Activity Detection), CNG (Comfort Noise Generation)
- G.168/165-compliant adaptive echo cancellation
- Dynamic Jitter Buffer
- Bad Frame Interpolation
- Voice band signaling support
- Generate Caller ID (DTMF or FSK)
- Provide Inbound or Outbound DTMF generation/detection between LAN and FXS interface
- Call Transfer (H.450.2) (optional)
- Call Forward (H.450.3) (optional)
- Call Hold (H.450.4) (optional)
- Gain/Attenuation Settings
- Provide Progress Tone: Dial tone, busy tone, call-holding tone and ring-back tone

SYSTEM STATUS INDICATORS

- TEL1 to TEL2 or TEL4: LED indicator for telephone port status
- POWER: Power ON indication
- LAN LINK/ACT and WAN LINK/ACT: Ethernet connection status
- LAN 10/100 and WAN 10/100: 10 or 100 Base-T status
- STATUS: registration to Gatekeeper status
- READY: operation status

CHASSIS

- Dimensions: 223 mm (W) x 35 mm (H) x 152 mm (D)
- Weight (unit): 1.5 kg



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