

VoIP!Edge™ Q-1FXS-1FXO, Q-2FXS-2FXO

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

Designed and built for use in small Call Shop and Prepaid Calling Card operation and by enterprise for inter-city and inter-office communication



Q-2FXS-2FXO shown

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

APPLICATIONS

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

- connect individual regular analog telephones into the FXS port/ports of Q-1FXS-1FXO or Q-2FXS-2FXO and use it to provide
 - prepaid or post-paid Long Distance Telephone Call service to customers for 1 or 2 calls simultaneously in a Call Shop operation or
 - prepaid calling card operation for Long Distance Telephone Call service to customers for 1 or 2 calls simultaneously
- all International Long Distance Calls are automatically placed through EcoCarrier 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

For use by an enterprise for inter-office or inter-city communication

- small offices of the enterprise and home offices of employees of the enterprise may use VoIP!Edge Q-1FXS-1FXO 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 EcoCarrier's 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

When supported by Q-Regime, the deployment of VoIP!Edge Q-1FXS-1FXO or Q-2FXS-2FXO 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.

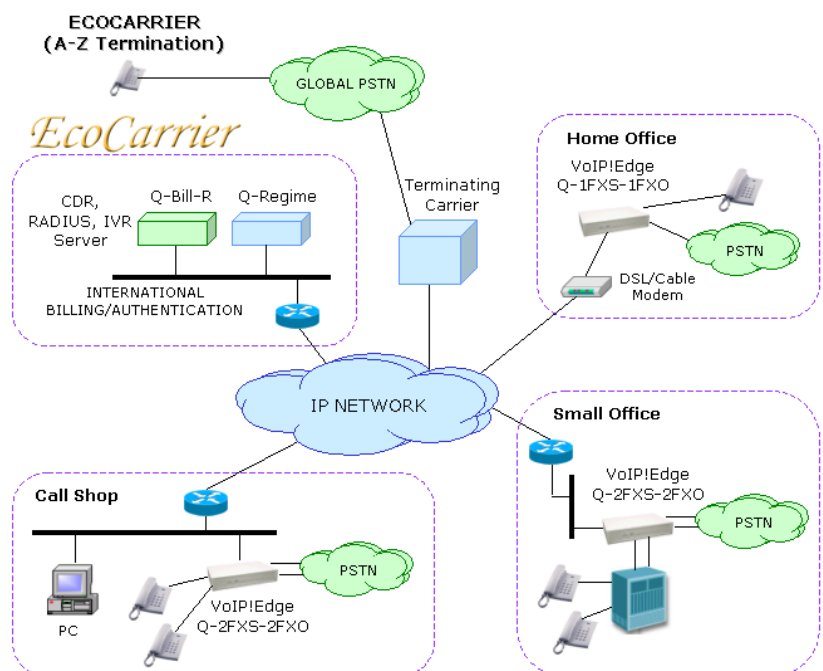
No Extra Installation Cost

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-1FXS-1FXO or Q-2FXS-2FXO

- the cost of installation of 1 or 2 telephone lines eliminated respectively
- the monthly telephone line charge of 1 or 2 lines eliminated respectively
- Long Distance Charges for calls on 1 or 2 lines eliminated respectively



FEATURES DESCRIPTION

TECHNICAL FEATURES

- ITU-T H.323 v3 compliance or SIP (two separate versions)
- Automatically select Dial Path – through IP or PSTN
- PSTN Line switch to telephone set in the event of power failure
- Configurable for use behind NAT router or IP sharing device
- DNS server enquiry
- 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-1FXS-1FXO or Q-2FXS-2FXO 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-1FXS-1FXO or Q-2FXS-2FXO
- Support fixed IP address and DHCP
- Support PPPoE for Dial Up Access to Internet via xDSL Modem
- 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-1FXS-1FXO or Q-2FXS-2FXO 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

- 10/100 BaseT Ethernet RJ45 port for connection to the Hub of a LAN or cable modem or ADSL modem
- 10/100 BaseT Ethernet RJ45 port for connection of a computer or other network device
- Asynchronous Console RS-232C DB-9 connector for configuration of the unit to suit a specific application
- 1 or 2 Analog (FXS) RJ-11 ports for connection with 1 or 2 regular analog telephones or the analog CO ports of a PBX and 1 or 2 PSTN (FXO) RJ-11 ports for connection with 1 or 2 POTS lines or the Station Ports of a PBX
- 12 VDC input (external 100 – 240 VAC input adaptor provided)

FXS INTERFACE

- 2-wire loop start
- Line polarity reversal generation
- Caller ID (DTMF/FSK) generation
- Programmable ring voltage, ring cadence, and call progress tone

FXO INTERFACE

- Support Automated Attendant with Tone or Voice Greeting
- PSTN polarity reversal detection
- Provide second Dial Tone to PSTN
- Disconnect Tone detection

AUDIO FEATURES

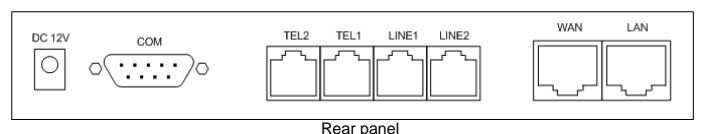
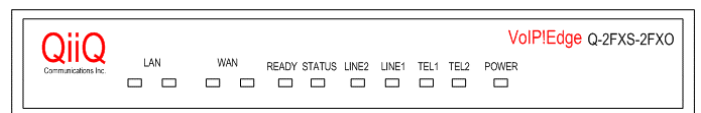
- Codec – G.711 A/u-Law, G.723.1, G.729A (optional)
- VAD (Voice Activity Detection), CNG (Comfort Noise Generation)
- G.168/165-compliant adaptive echo cancellation
- Dynamic Jitter Buffer
- Bad Frame Interpolation
- Voice band signaling support
- Provide Inbound or Outbound DTMF generation/detection
- Gain/Attenuation Settings

SYSTEM STATUS INDICATORS

- TEL1 and LINE1 or TEL1, TEL2, LINE1 and LINE2: 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



Q-2FXS-2FXO shown

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