

VoIP!Edge™ Q-1FXS+Hub

Proven effective, low-cost single port VoIP gateway for IP-based Voice Communication with a built-in 3-port switching hub

Designed and built for use in SOHO environment with broadband access to the Internet



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

Supports both H323 and SIP protocol for VoIP

APPLICATIONS

For use as a standalone VoIP gateway for a telephone service provision business in a small office and home office situation by an enterprise for inter-office or inter-city communication by employing one or more units of Q-1FXS+Hub or in one phone-booth Q-CallShop

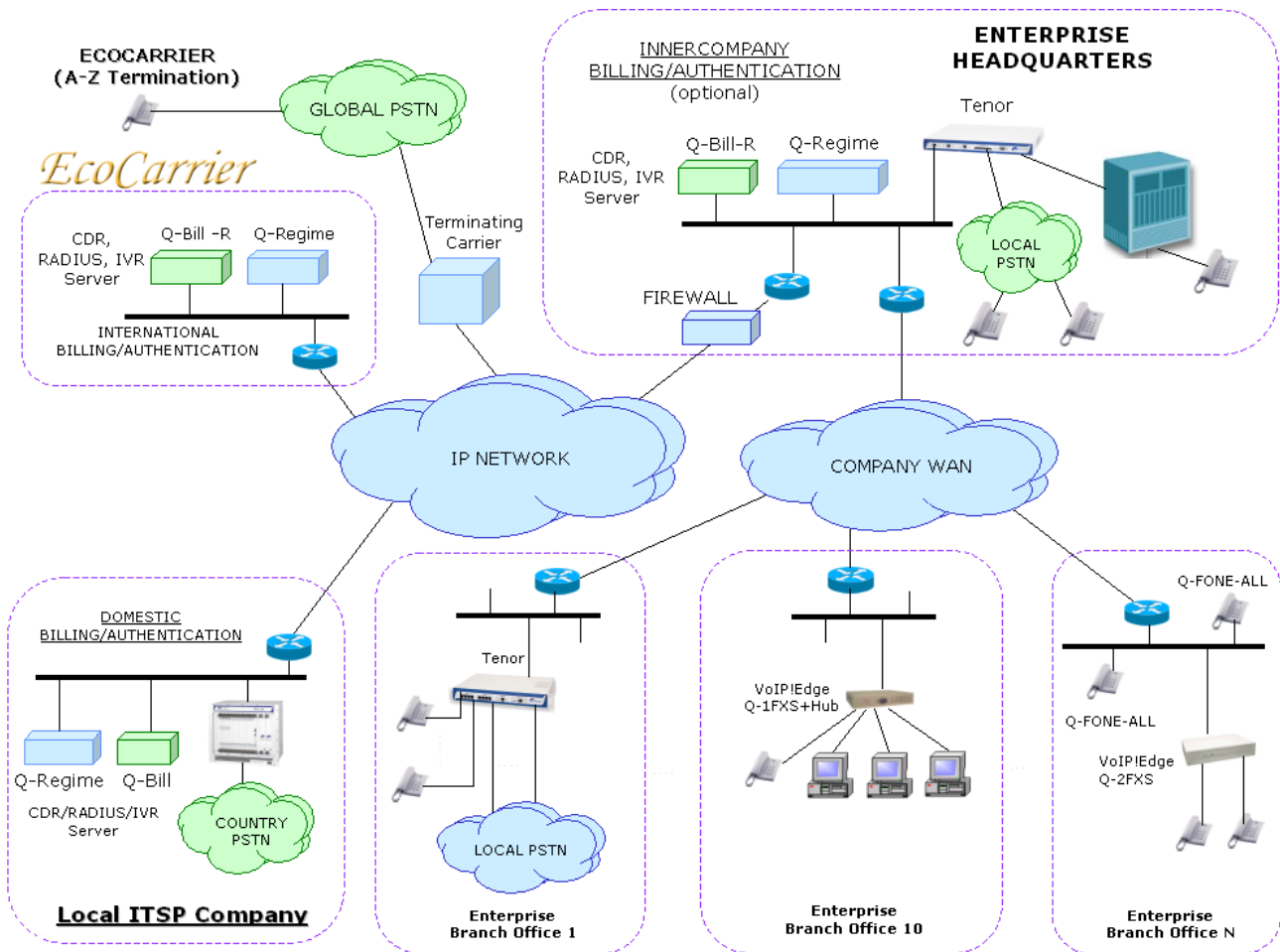
- connect a regular analog telephone into the FXS port of Q-1FXS+Hub to provide prepaid or post-paid Long Distance Telephone Call service to customers for 1 call per unit of Q-1FXS+Hub in a small office
- connect Q-1FXS+Hub to a cable modem, ADSL modem or an existing LAN port, and connect 1-3 PCs to the Ethernet ports of the switching hub of Q-1FXS+Hub. The PCs can access the internet through the Q-1FXS+Hub using the Q-1FXS+Hub's NAT function.
- 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 Q-CallShop operator with significant competitive advantage
- small offices of the enterprise and home offices of employees of the enterprise may use VoIP!Edge Q-1FXS+Hub 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 VoIP!Edge Q-1FXS+Hub 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.

SPECIFICATIONS

- Protocol:
 - ITU-T H.323 v2/v3/v4 compliance
 - SIP RFC3261
- Supplementary service: H.450 (Call Hold, Call Transfer, Call forward)
- FAX support:
 - Automatically FAX detection
 - Group 3 Fax relay at 2.4 - 14.4 kbps
 - Supports T.38 protocol
- Codec: G.711A/μ-law, G.723.1, G.729, G.729A, G.729B, G.729AB
- Network Interface: Four 10/100Base-T Ethernet RJ-45 ports (auto LAN MDI/MDIX) – one for connection to the WAN and three for connection to the LAN
- FXS Interface:
 - One RJ-11 Telephone port (FXS)
 - Programmable AC impedance, feeding voltage, ring voltage, ring cadence, loop current and call progress tone
 - On-Hook Voltage: 48 VDC
 - Ring Voltage: 50 V RMS
 - Loop Current: Constant 23 mA
- Voice Quality:
 - VAD (Voice Activity Detection)
 - CNG (Comfort Noise Generation)
 - G.165/G.168 compliant echo cancellation
 - Programmable Dynamic Jitter Buffer
 - Bad Frame Interpolation
 - In-band and out of band DTMF generation/detection
 - Gain/Attenuation Settings
 - Provides Progress Tone: Dial tone, busy tone, second dial tone, call-holding tone and ring-back tone

- QoS: TOS
- Caller ID: Generation (FSK)
- Console: One DB-9 RS-232 COM port
- Tone: DTMF / CPT (Call Progress Tone) generation/detection
- TCP/IP: Supports Fixed IP and DHCP
- ADSL Environment: PPPoE
- Firewall Environment: Behind NAT Router or IP sharing device
- Security: Supports H.235 security function
- Configuration & management: Console port, TELNET and Web Browser
- Upgrade: Firmware upgrade through network by TFTP/FTP
- Power: Input 100~240 VAC, Output 12 VDC
- Certification: CE, FCC
- Operation Temp: 5° C to 40° C
- Humidity: 10% to 90% (Non-condensing)
- Chassis:
 - Dimension: 165 mm (W) x 29 mm (H) x 139 mm (D)
 - Weight (unit): 1 kg



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