EUSSO

Quality Networks

UTG7108-44R/SR/OR/PR

VoIP SIP/H.323 Gateway VPN Router

Converting voice and data over internet IP network

SIP Protocol	H.323 Protocol	LAN 3-Port	WAN 1-Port	FXO Port	FXS Port	FXS/PSTN Port

VPN Security	QoS Quality	Web Management	Router Built-in	Firewall

FEATURES

- Supports SIP and H.323 dual mode communication for simultaneous VoIP call

- Supports dual FXS/FXO or FXS/PSTN VoIP interface to connect between PBX and PSTN

- Provides 8 ports different combinations of real-time voice and data in a single embedded box

- !-WAN + 3-LAN switch embedded for ADSL/Cable modem broadband router with VPN function

- Built-in Firewall, VPN, QoS, NAT Server, PPPoE, DHCP, and watch dog advanced functions

- Supports multiple voice codec G.711, G.723.1, G.726, and G.729a/b and G.168 Echo Cancellation

- Web-based configuration and management through user-friendly Web browser user-interface

- Flexible registration up to 4 Gatekeeper or SIP proxy simultaneously for different VoIP Route plan

- Supports User-definable Static Routing Table, Network Access Rules, and TCP/UDP Port Mapping

- Built-in Watch Dog for auto recovery and Self Protection against DoS attacks

Package Contents

- One VoIP Gateway Router
- One QIG / User's Manual CD-ROM
- One RJ-45 Network Cable
- One Power Adapter

OVERVIEW

EUSSO UTG7108 series is a cost effective and highly reliable Voice over IP (VoIP) gateway integrated with broadband router switch that offers toll quality voice and real-time fax data over IP networks. It supports both SIP and H.323 dual communication models. With its embedded architecture, this device is ideal for VoIP applications associated with Small-Medium size Business (SMB), Remote Office and Branch Office (ROBO), and ISP/ITSP service markets.

UTG7108 series has user friendly interfaces and it may be installed easily and conveniently with VoIP management tools to yield immediate cost savings. Implemented with an efficient Real-Time Operating System (RTOS) and FLASH memory, UTG7108 series provides field upgradeable capabilities, so, it may be programmed with updated protocols or algorithms locally or via the network at anytime. It comes equipped with remote management capabilities, configurable signaling to work with PBX or telephone. Utilizing advanced VoIP related technologies, it includes various voice coders and fax algorithms, echo cancellation, Voice Activity Detection (VAD), Comfort Noise Generation (CNG), and packet recovery algorithms.
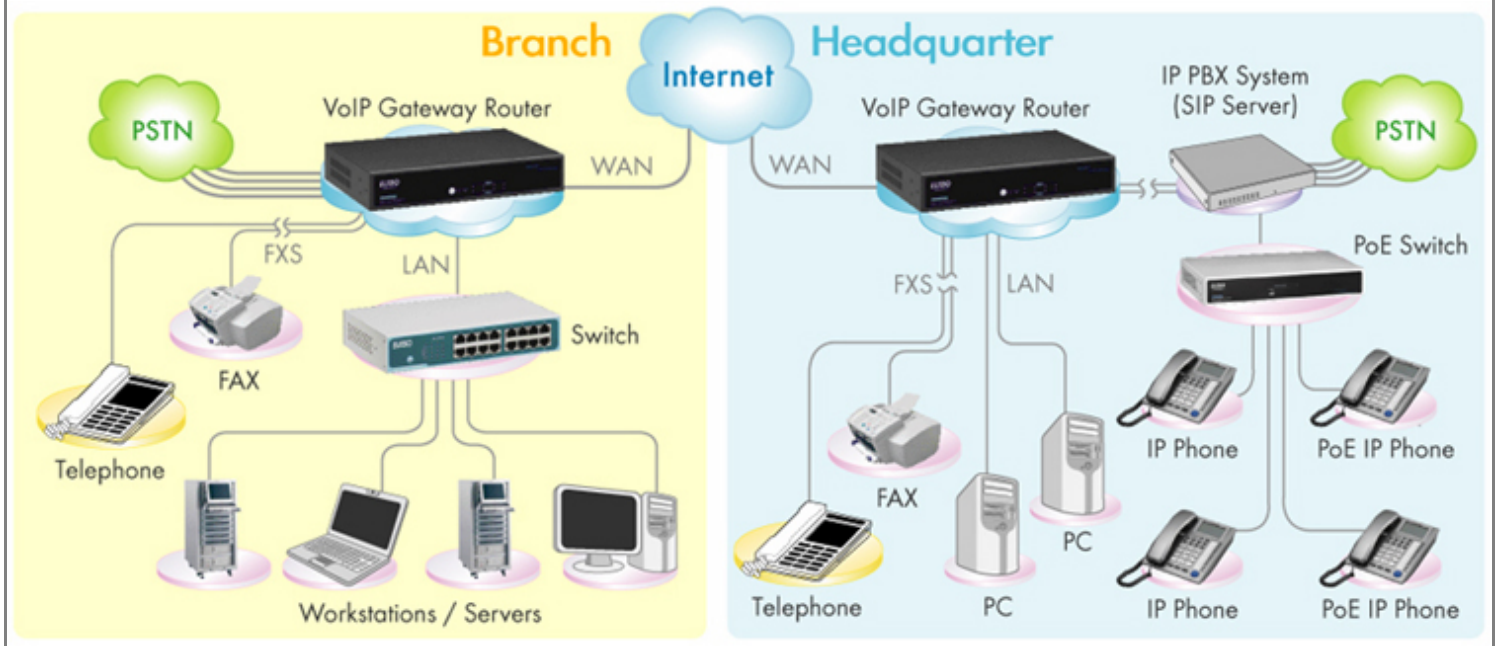
EUSSO's Internet Telephony Gateway family supports Voice over IP (VoIP), as well as Fax over IP (VoIP), and it seamlessly bridges existing PBX or phones with IP networks. Its scalability satisfies user's needs for system growth without additional software or complex integration. Also, it supports various types of network configurations and requires very little maintenance or administration. It is fully interoperable with world well-known VoIP gateways and PBXs. Furthermore, it coexists with broadband access devices for ADSL or CATV networks.
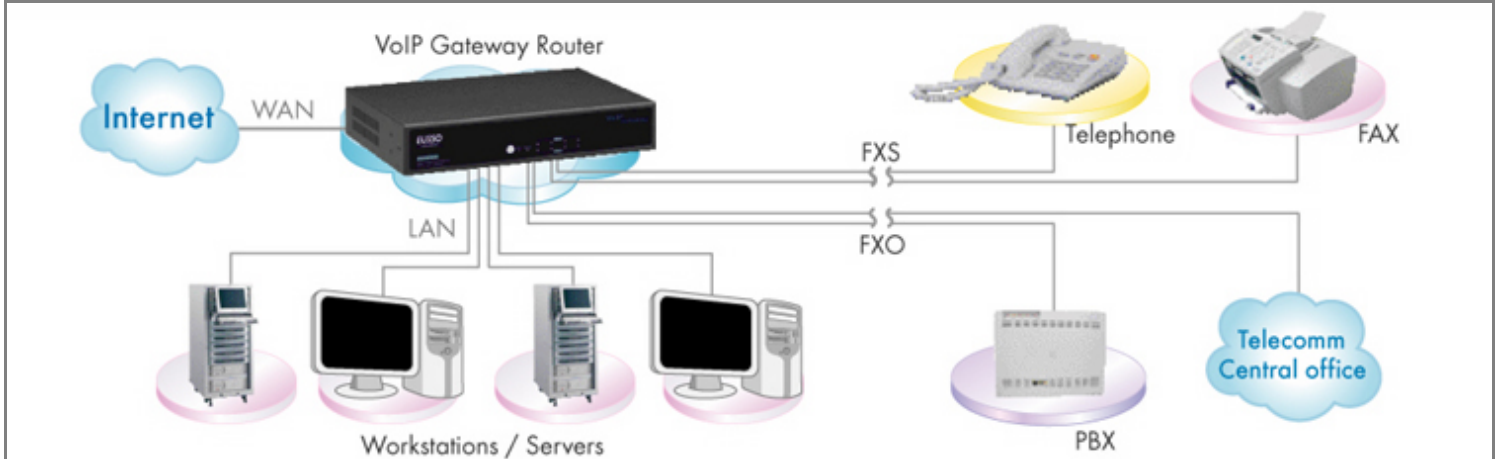
SPECIFICATIONS

VoIP Models Specifications				
Model	UTG7108-44R	UTG7108-SR	UTG7108-OR	UTG7108-PR
VoIP Standard	SIP / H.323	SIP / H.323	SIP / H.323	SIP / H.323
Voice Port (RJ-11)	4 –FXS + 4-FXO	8-FXS	8-FXO	8-FXS/PSTN
WAN Port (RJ-45)	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps	1 x 10/100Mbps
LAN Port (RJ-45)	3 x 10/100Mbps	3 x 10/100Mbps	3 x 10/100Mbps	3 x 10/100Mbps
Protocols	SIP, v2 (RFC3261), H.323, TCP/IP, UDP, FTP, PPP, HTTP, NAT, DHCP, PPPoE, DNS, BOOTP, TFTP, TELNET, SNMP, SNTP, DNS, UPnP, DDNS, IEEE802.3, IEEE802.3u			
Voice Processing	Audio Codec: • G.711 A-Law / μ-law (64kbps) • G.723.1 (5.3 or 6.3kbps) • G. 726 (ADPCM 40, 32, 24, 16kbps) • G.729a/G.729b (8kbps) Supports T.38 FAX Relay (96k, 14.4k) Carrier tone detection and generation Silence suppression and comfort noise DTMF In/Out band Relay DTMF/Call progress detection and generation Q.931 Fast Star Supports Caller ID generate and detect Supports VAD, H.225, H.245, CNG, G.168, jitter buffer and programmable gain control			
Voice Signaling	Supports SIP and H.323 simultaneous VoIP calls Supports SIP v2 stndard (RFC3261) • Outbound Proxy. • STUN Server Register up to 4 Server simultaneously Supports multiple dialing plan / call hunting group Adaptive Jitter Buffer function Built-in Web call Server function Extensible by external IVR/CDR/Billing server for value-added application Current drop and polarity reversal detection and generation on analog trunk interface Selectable group or sequence ring the PBX when VoIP call in IP screening table for authorized VoIP call in Flexible Routing table and profile			
Management	Web interface management Supports Auto-Provision System Remotely configuration/Upgrade by Web UI or Auto Provisioning (HTTP) Supports Call Detailed Records (CDR) 1 reset button for load factory default WAN IP configure can be programmed by IVR via phone set Built-in watch dog for auto recovery			
Router Functions	Supports Static and Dynamic IP from DHCP, PPPoE Built-in DHCP Server Dynamic DNS Support Support Network Access Rules (LAN to WAN or WAN to LAN) Self-Protection against DoS Attacks Supports NAT through function NAT function: Virtual server, Port Mapping, ALG, DMZ, Static Routing Table Firewall Option: Client Filtering, URL Filtering, MAC Control, Drop Port Scans VPN Pass-Through (PPTP & IPSEC Pass Through)			
Diagnostic LED	Power, Status, Ready, Phone, Line, LAN, and WAN			
Dimension	233 (W) x 153 (D) x 46 (H)			
Operating Temperature	0° ~ 45℃ (32°F ~ 113°F)			
Humidity	0 ~ 90% (Non-Condensing)			
Power	DC12V, 1.5A			
Emission	CE, FCC			

VoIP Gateway Router with SIP IP PBX System Application Diagram

VoIP Gateway Router with FXS+FXO Ports Application Diagram

The VoIP Gateway with router making voice and data connectivity together with IP sharing router function.
Telephone and fax can be served by FXS port and other FXO ports support telecom central office line or PBX.

ORDERING INFORMATION

Model	Description
UTG7108-44R	8-port VoIP SIP/H.323 Gateway VPN Router (4-FXS + 4-FXO)
UTG7108-SR	8-port VoIP SIP/H.323 Gateway VPN Router (8-FXS)
UTG7108-OR	8-port VoIP SIP/H.323 Gateway VPN Router (8-FXO)
UTG7108-PR	8-port VoIP SIP/H.323 Gateway VPN Router (8-FXS/PSTN)

EUSSO Technologies, Inc. is a dedicated data communication and networking company. With professional experiences in design, production, marketing and service support, we deliver the full range networking products including Gigabit Ethernet, Fiber Optic, Wireless LAN, Switches, Hubs, LAN cards, PCMCIA adapters, Converter, Transceivers. As well as Internet Telephony Gateway, Print Servers, Internet Sharing Servers and many others.

2007/7/20 ver 1.0