EUSSO
Technologies

UTG7102&04

Enterprise Telephony
2-Port VoIP Gateway with 2FXS Interface

FEATURES

- Supports 2 channels of real-time voice and fax in a single embedded box

- Field programmable CP tone detection and generation to support PBX and CO line interconnections

- Supports programmable line interfaces with country specific telephone settings

- Supports ITU standard vocoders and voice processing algorithms including G.711, G.723.1, and G.729 A/B, and

- G.168 Echo Cancellation

- User friendly management including console port interface, HTTP and Telnet servers, and VoIP related management such as call control and dial plan set up

- Built-in TFTP and flash memory for software download and upgrade via network

- H.323 call control protocol compliant

- QoS support for VoIP packets

OVERVIEW

The UTG7102-S is a cost effective and highly reliable Voice over IP (VoIP) gateway that offers toll quality voice and real-time fax data over IP networks. With its embedded architecture, UTG7102-S is ideal for VoIP applications associated with Small-Medium size Business (SMB), Remote Office and Branch Office (ROBO), and ISP/ITSP service markets.

The UTG7102-S 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, UTG7102-S 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 (FoIP), 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 renown VoIP gateways and PBXs. Furthermore, it coexists with broadband access devices for ADSL or CATV networks.

Hardware	
Digital Signal Processors	One TI TMS320VC5402 DSP 100 MIPS per DSP processor On-chip memory: 16K word of SRAM, 4K word of ROM Local SRAM 128K x 16 for each DSP
Control Processor	32-bit ARM7 TDMI core 8K byte unified cache 4Kworde Write buffer Embedded on-chip Ethernet MAC with associated BDMA Local 2M x 16 SDRAM and 1M x 16 Flash
I/O Interface	Standard 10/100 BaseTX RJ 45 interface RJ 11 Loop Start interfaces for FXS
Operating Temperature	0°- 50°C (32° -122°F)
Operating Humidity	10% - 95%, non-condensing
Power Supply	AC-to-DC power supply (90~260VAC, auto-ranging, 50/60Hz)
Certifications	CE FCC, Part 15, Class A FXS/FXO (Compliant with ITU-T G.712)
Software	
Speech	Compression algorithms: ITU G. 711, G.723.1, and G.729A/B. Hybrid echo cancellation G.168 (16 ms) Auto switch between Fax and voice DTMF tone detection/regeneration Channel: four channels per module Comfort Noise Generation (CNG) User programmable Call Progress detection/generation Voice Activity Detection (VAD) User programmable Gain Control
Fax	Facsimile protocol: T.30 Group 3 Modulation formats: V.21, V.27ter, V.29, V.17 Real-time fax over IP DTMF tone detection/regeneration
Management Tools	RS 232 console port interface HTTP Server Telnet Server RAS and dial plan management TFTP and flash memory for remote software download and upgrade.
H.323 Protocol Stack	RAS sub-stack for Terminals and Gatekeepers: supports all mandatory and optional messages (Tx and Rx) as specified in table 19/H.255.0 H.245 sub-stack: supports the Signaling Entities of Master Slave Determination, Capability Exchange, Open Logical Channels, and Close Logical Channels Q.931: supports all mandatory messages as specified in table 4/H.255.0 Compliant with H.323 Version 1 and Version 2

ORDERING INFORMATIONS

Model	Description
UTG7102-S	2-Port VoIP Gateway with 2FXS Interface
UTG7104-S	4-Port VoIP Gateway with 4FXS Interface
UTG7104-O	4-Port VoIP Gateway with 4FXO Interface
UTG7104-22	4-Port VoIP Gateway with 2FXS/2FXO Interface

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.