SIP EXPRESS™   TA2   abp TECH

Residential SIP VoIP Gateway 2 Port Terminal Adapter

The SIP Express Residential Gateway is an external standalone device that provides cost effective communications or IP Telephony through the internet.
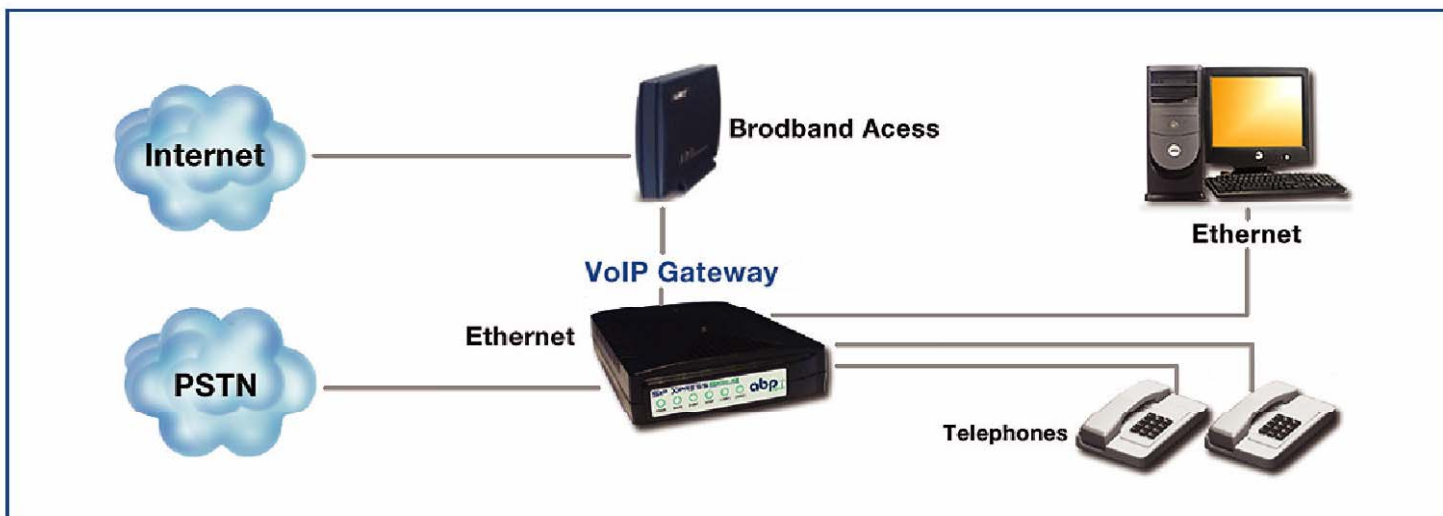
The residential gateway can be used to build a private phone network over the internet or for accessing a SIP based ITSP (Internet Telephony Service Providers) network to have Toll Quality communications through access to Dial Tone, Local and or Long Distance dialing and other features like Incoming DID, Caller ID, Call waiting that may be supported by the ITSP.

The SIP Express allows to connect two standard analog phone devices like home desktop phones, wireless phones, faxes or even a small keyless system or a PBX over 'tie-lines'.

The Ethernet Interface will operate with XDSL, cable modem or wireless broadband services. The Device will operate on a single IP offering 2 simultaneously usable phone lines and a LAN port for the connection of PCs or other devices behind a basic NAT IAD on the WAN connection of the device.

Key Benefits

• Provide Toll Quality voice over IP Network

• Cost-effective 2 port edge device that enables IP telephony

• Two 10/100 Ethernet Connection for broadband access and corporate LAN

• Simple web based configuration

• Remotely management and remote upgrade

• Automatically switches to PSTN line when device fails or for calls with specific prefixes

SIP EXPRESS™ TA2

Features and Specifications   Description

Hardware Specifications

CPU and RTOS	BCM1112C and VxWorks
Memory	4Mbyte FlashROM, 16 Mbyte RAM
Front Panel LED Display	Power, WAN, LAN, Ethernet, VoIP
WAN Interface	1 RJ-45 10/100 AutoNegotiate
LAN Interface	1 RJ-45 10/100 AutoNegotiate
Telephone Interface	RJ-11 2 wire, 41VDC typ. REN:4

Protocols and Software

VoIP Protocols Supported	SIP, H323 and MGCP
SIP Support	Supports SIP Proxy, Registration and Outbound Proxy
Simple NAT field and full STUN support	
SIP Features	Call hold, Call waiting, Caller ID Indication
MGCP features (MP)	Wildcard RSIP , Endpoint Name style selection Packet cable NCS1.0
Dial Completion Digit	Assign particular code for indicating end of dialed digit to start call setup.
Basic tone support	DT, BT, RBT CWT for second call arrival, OFF Hook Alert
IP address management	DHCP Client, PPPoE Client, Static IP, DHCP Server for LAN Port, NAT Support for LAN Port
Administration and Provisioning	Debug and Remote boot, SNMP V2 MIB I & II , Firmware upgrade and provisioning by provisioning server.
Password	Multilevel Password (User, Supervisor/Service Provider)
CODEC Support	G.711 A-law, G.711 u-law, G.723.1, G.729a
FAX Support	Autodetection, T.38 (UDP)"
Sound Quality	Adaptive Jitter Buffer, Adjustable Payload length, G.168 Echo Cancelation 16ms min., Comfort Noise, VAD stops packetization. Gain control.
QOS	TOS bit. Priority tag for Layer 2 voice packet IEEE 802.1Q VLAN Support and IEEE 802.1p Priority Support planned future firmware.
Internal QOS	Give higher priority to voice packet when data packet at LAN port to be transmitted at same time

Miscellaneous

Backup PSTN line access	When no power, not registered, unit not working, access code or DialPlan"
Safety Certifications	US UL60950, Europe CE EN60950
Regulatory	FCC Part 15, FCC Part 68, TBR21

Physical Specifications

Power	12VDC nominal , 12W, 110VAC US or 220V Euro plug
Environment	0-40º C, 10-90% RH, Non-Condensing
Dimensions	5.5"W 1.5"H 7"D