# High-End 1-Port GSM SOHO Gateway

# VoiceFinder AP-GS501

## Product Highlights

- **Powerful RISC processor and DSP**

- **One(1) 10/100 Mbps Fast Ethernet interface Port**

- **One(1) GSM Module (Antenna, SIM Card) Interface**

- **One(1) FXS Voice Interface (Model B)**

- **Front panel LEDs that allow you to check the GSM, VoIP and LAN ports in real-time**

- **VoIP Signaling stacks supporting SIP and H.323 concurrently**

- **Multi-protocol routing for LAN and WAN access**

- **Voice Processing**
  - **VAD, DTMF,CNG,G.168, T.38 G3 Fax Relay**
  - **Voice Compression Algorithms:**
    **G.723, 729A, G.726, and 711**

- **SNMP MIB V2 for network administration**

- **Smart, easy Web-based management**

- **Enterprise VoIP Plug & Play Management System (VPMS) management**

- **Standard & extended access list for security**

- **Enhanced QoS Management for Voice Traffic**

- **Remote firmware upgrade using FTP & TFTP**

- **Cisco-style Command Line Interface (CLI) for expert settings**

- **Small and compact design**

- **Power On/Off switches for reliability**

- **Scalability, authenticity, and reliability ensured due to the installed APOS internetworking software**

## AP-GS501 1-Port  GSM SOHO Gateway

VoiceFinder AP-GS501 one(1) channel GSM Gateway provides high-performance Analog or IP to GSM gateway solution for small enterprise such as SOHO. This product uses the state-of-art technology voice compressed algorithm and unique QoS algorithm of AddPac to maintain the maximum voice quality under fast internet line and slow internet line as well. This product is designed based on high performance RISC CPU + DSP structure; supports upgraded speed, the best quality product, offers various user-friendly functions, manufactured at low cost and this product gives high performance for its price.

AddPac AP-GS501 is a device that can support both GSM gateway service (FXS to GSM or Internet to GSM) and VoIP gateway service (FXS to Internet) simultaneously. It also supports SIP, H.323 Multiple VoIP signaling protocol, various voice codec support(G.711, G.726, G.729, G723.1), one(1) channel GSM interface (antenna, SIM Card), one(1) fast ethernet port, one(1) FXS interface port, and state-of-art technologies and services. VoiceFinder AP-GS501 GSM SOHO Gateway supports  one(1) 10/100 Base-T fast ethernet Interface ports and provides stabilized leased line environment, ADSL environment, cable modem environment, fixed IP Address, supports all flow IP environment so that it can be selected in accordance with user environments. It also provides internet application function, and offers both VoIP gateway function and GSM gateway function in one platform. So it supports the GSM Gateway solution for SOHO in economical and effective way under fast internet access environment.

Designed on programmable high performance RISC Integrated DSP Technology, AP-GS501 is capable of adopting new capabilities and improvement by downloading firmware from website or with its auto-upgrade option as the customers' needs grow. Moreover, operators can download the latest protocol or service improvements as well as update firmware by checking the version and activating the auto-upgrade via AP-NMS (Network Management System) or AP-VPMS(VoIP Plug &Play Management System)  system of AddPac Technologies.

## AP-GS501 Applications
- GSM gateways for SOHO
- FXS to GSM Interworking Service
- IP to GSM Interworking Service

## Hardware Specification
- RISC Microprocessor (CPU) + Voice DSP Processor
- Memory
  - System memory 4Mbyte Flash Memory
  - Main memory 32Mbyte SDRAM
- GSM Interface
  - One(1) Channel GSM Module
  - One(1) Antenna Interface
  - One(1) SIM Card Interface
- PSTN Interface
  - One(1) FXS Interface(RJ11) (Model B)
- Ethernet Interface
  - 10/100Mbps 1-port Ethernet (RJ45)

## Power & Operational environment
- Power Supply VAC 110~220V, 50/60Hz, 10Watt External Power Adaptor
- Operating Temperature 0°C to + 50°C (32° to 122°F)
- Storage Temperature -40°C ~ +85°C (-40° ~ +185°F)
- Humidity 5%~95%

## Dimensions
- H x W x D : 28.8x 77 x 111 (mm)
- Weight : 0.32 (Kg)

## IP Routing Protocol
- Static and IEEE802.1Q VLAN Routing

## WAN Protocol
- Broadband IP Network
- PPPoE
- Standard Compliant WAN Network Protocol

## GSM Service
- GSM two-stage dialing
- GSM Module Management : PIN, IMSI, Power, (No) Shutdown Setting, Up/Down Speed Display, Current Power Level Display
- GSM Inbound call black list & white list
- VoIP Inbound call black list and White List
- LCR (Least Cost Routing)-GSM Traffic Metering
- LCR (Least Cost Routing)-Scheduling
- LCR (Least Cost Routing)-Simulator
- GSM Messaging Service
- GSM SNMP : GSM Standard MIB
- Call Back Service at GSM Port Busy

## Voice over IP Service
- H.323, SIP Dual Concurrent VoIP Signaling Protocol
- VAD, DTMF, CNG, G.168, T.38 FAX Relay
- Voice Codec : G.723, G.729, G.726. G.711, etc
- High Level VoIP Signaling Debugging Features
- Polarity Inversion Feature
- Various VoIP Features
- Interoperable with Diverse VoIP Gateways
- Interoperable with Diverse VoIP Gatekeeper, SIP Proxy, MGC

## Operation & Management
- Performance Analyzing (Process, CPU, Interface )
- Configuration Backup and Restore for APOS Management
- Debugging and Diagnosis Features
- System Booting/Rebooting through Watch Dog
- Data Logging Features
- IP Traffic Statistics through Accounting
- Debugging/Diagnostic

## Network Management
- Standard SNMP Agent (MIB v2) Support
- Console, Telnet, Web Based Management
- Remote Download via FTP/TFTP
- Remote Firmware Upgrade using FTP/TFTP

## Traffic QoS Control
- Traffic QoS Control Feature For Services
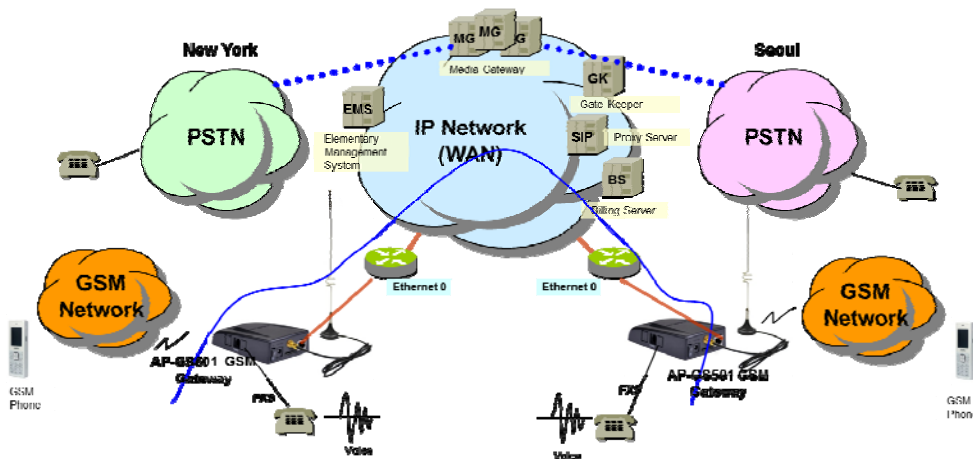- Voice, Data Prioritizing Control
- Various QoS Algorithm Support

## Security Feature
- IP Packet Filtering / Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Support
- Password Authentication Protocol (PAP)
- Challenge Handshake Authentication Protocol (CHAP)

## Other Features
- DHCP Server and Relay
- Network Address Translation (NAT)
- Port Address Translation (PAT)
- Transparent Bridging (IEEE Standard)
  - Spanning Tree Bridging Protocol
  - Concurrent Routing and Bridging
- NTP (Network Time Protocol)
- Cisco Style Command Line Interface
- Standard Compliant Network Protocol
- AddPac Proprietary IP Sharing
- MAC Address Filtering
- DNS Proxy

## Network Configuration



## Ordering Information

AP-GS501: Standard Configuration
- One(1) Fast Ethernet Port
- RISC CPU + DSP
- 1-Port GSM Interface
- Power ON/OFF Switch
- External Power Adaptor

VoIP Interface

Model B: - 1-Port FXS Interface

- CAB-LAN Ethernet Cable
- CAB-ANT Antenna Cable

www.addpac.com