High Performance GSM VoIP Gateway

VoiceFinder AP-GS2800

AP-GS2800 GSM VoIP Gateway

VoiceFinder AP-GS2800 is a new cutting edge PSTN or IP to GSM gateway supporting maximum 28 ports of GSM Voice interface or 24 GSM ports + 1-port Digital E1/T1 interface. GSM and analog/digital PSTN interface of AP-GS2800 provide an optimized call scenario when it interoperates with legacy PBX. Compact cost effective design and system architecture of AP-GS2800 provides customer satisfaction in high quality, performance and system reliance. 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-GS2800 is a device that can support both GSM gateway service (Digital E1/T1 to GSM or Internet to GSM) and VoIP gateway service (Digital E1/T1 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), seven(7) module slots for GSM, CDMA and VoIP module, one(1) module slot for CPU board, two(2) fast ethernet ports, 1-port RS232C console, and state-of-art technologies and services. GSM gateway combining IP-PBX(or Conventional PBX) is now suggesting a new model for a main voice communication solution. In order to be a part of advanced VoIP communications naturally in the future, making an excellent choice of choosing GSM gateway is essential. VoiceFinder AP-GS2800 is suitable for general enterprises, medium and large public offices. It has functions as a media gateway which interoperates with IP-PBX or conventional PBX. Especially AP-GS2800 provides an optimal solution of VoIP and GSM communications in telephony environments that using telephone lines and PBX to get connect with a head office. VoiceFinder AP-GS2800 GSM VoIP Gateway supports two(2) 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

Product Highlights

- Powerful RISC microprocessor and DSP

- Two(2) 10/100 Mbps Fast Ethernet interfaces

- Seven(7) module slots for GSM, CDMA and VoIP Interface Cards
  - Up to 28 GSM Interface Channel (4-Port GSM Module x 7 Module)

- 4-Port GSM Module (AP-N-GSM4)
  - 1 Antenna interface (internal 4ch combiner)
  - 4 SIM cards interface
  - Hot Swap Service

- 4-Port CDMA Module (AP-N-CDMA4)
  - 1 Antenna interface (internal 4ch combiner)
  - 4 RUIM cards interface
  - Hot Swap Service

- Analog and Digital VoIP Interface cards
  - 8-port FXS, 8-port FXO, 1-Port Digital E1/T1

- 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

- Essential scalability features such as DHCP server & relay, NAT/PAT, IEEE transparent bridging, and debugging/diagnostics

- Remote firmware upgrade using FTP & TFTP

- Command Line Interface (CLI) for expert settings

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

AP-GS2800 Applications
- GSM gateways for Large Enterprise
- GSM VoIP Gateway for ISP
- FXS to GSM Interworking Service
- IP to GSM Interworking Service

Hardware Specification
- RISC Microprocessor (CPU) + Voice DSP Processor
- Memory
  - System memory 512Mbyte Flash Memory
  - Main memory 128Mbyte DDR2
- Seven(7) module slots for GSM, CDMA, VoIP Cards
- 4-Port GSM Interface Card
  - Four(4) Channel GSM Module
  - One(1) Antenna Interface
  - Four(4) SIM Card Interface
- PSTN Interface
  - 8-Port FXS Card
  - 8-Port FXO Card
  - 4-Port FXS & 4-Port FXO Card
  - 1-Port Digital E1/T1 Card
- Ethernet Interface
  - 10/100Mbps   1-port Ethernet (RJ45)
- Console Port
  - RS-232C   1-port Console (RJ45)

Power & Operational environment
- Power Supply   VAC   110~220V, 50/60Hz, 5V 30A
- Temperature 0°C ~+50°C (operating)
- Temperature -40°C ~+85°C (storage)
- Humidity 5%~95%

Dimensions
- H x W x D : 147mm x 303.5mm x 300mm
- Weight : 7.3 (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
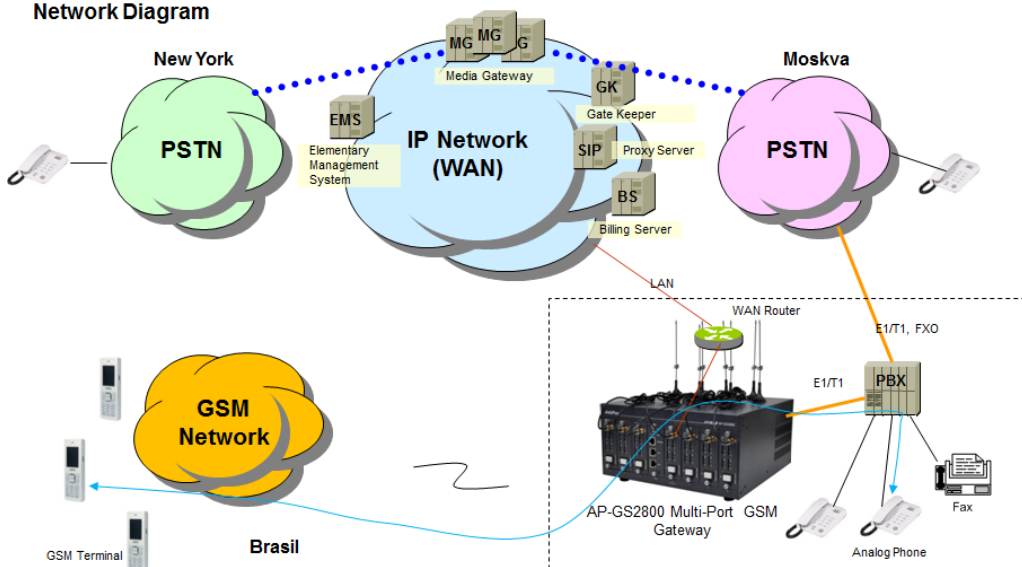- Various QoS Algorithm Support

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 Diagram

Ordering Information
-    AP-G2800 :   Standard Configuration
- AP-GS2800 GSM Gateway Main Body
- Seven(7) Module Slots for GSM, CDMA and VoIP Cards
- 2-Port 10/100Mbps Fast Ethernet(RJ45)
- 1-Port RS232C Console Interface(RJ45)

-    GSM, CDMA and VoIP Interface Cards
- AP-N1-GSM4 Module
- AP-N1-FXS8 Module
- AP-N1-FXO8 Module
- AP-N1-FXS4O4 Module
- AP-N1-E1 Module

- CAB-LAN   Ethernet Cable
- CAB-CON   RS-232C Console Cable
- CAB-ANT   Antenna Cable