AP-GSS1000
128Ch GSM SIM Server
High Performance GSM SIM Server Solution
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Product Overview
AP-GSS1000 GSM SIM Server

- Quad(4) Module Slots for 32ch SIM Bank Module (Up to 32x4=128ch SIM Slot, CPU Module)
- High Performance RISC Microprocessor Architecture
- Remote SIM solution for Centralized Management
- Hot-Swap Service for SIM Bank Module
- Powerful Real-time Response Service using Embedded RTOS
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Two(2)10/100Mbps Fast Ethernet
- One(1) RS-232C Port for Command Line Interface
- Firmware Upgradeable Architecture
- Embedded Smart Web Manager for GSM SIM Server
- High Density and Compact Size Design
- Internal Power Supply
Product Highlights
AP-GSS1000 GSM SIM Server

Powerful GSM SIM Server
Up to 128ch SIM Server
Quad(4) Module Slots for SIM Bank Module, 32ch SIM Bank Module, Hot-Swap, Port LED
Centralized Remote SIM solution
APOS™ Technology Firmware Upgradeable Architecture
Powerful Network Protocol Support
Advanced SIM Server Mechanism www.addpac.com

Rack Mountable Chassis with SIM Bank Module
High Performance RISC CPU
Broadband IP Networking with Two(2) 10/100Mbps Fast Ethernet
Smart Web Based Management
Cascading Architecture

AddPac
APOS Technology
AP-GSS1000 GSM SIM Server

Multimedia Conferencing, and more… Our Customer Application

Video  Audio  Voice  Data

EMS  OSD

APOS Internetworking Technology
AddPac GSM SIM Server Hardware Platform

Broadband IP Networking

• APOS : AddPac Internetworking Operating System
• OSD : On-Screen Display
• EMS : Element Management System

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Hardware Specification
AP-GSS1000 GSM SIM Server

- RISC Microprocessor Computing Power
- Quad(4) SIM Bank Module Slots
- 32ch GSM SIM Slot Module (AP-N1-SIM32)
  - 32ch SIM Card Slot
  - SIM Slot Status Port LED
  - Hot-Swap Button
- Network Interface
  - Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface for CLI
- Run LED, LAN LED, Port LEDs
- Internal Power Supply
## AP-GSS1000 GSM SIM Server

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<td>Voice Interface</td>
<td>Quad(4) Module Slots for AP-N1-SIM32 GSM SIM Slot Module</td>
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<td></td>
<td>AP-N1-SIM32 : 32channel GSM SIM Slot Module, Hot-Swap, Port Status LED</td>
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<td>Ethernet Interface</td>
<td>2-Ports 10/100Mbps Fast Ethernet Interface(RJ-45)</td>
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<tr>
<td>Flash Memory</td>
<td>512Mbyte NAND Flash Memory</td>
</tr>
<tr>
<td>Base Memory</td>
<td>128Mbyte High-speed DDR2</td>
</tr>
<tr>
<td>Power Requirement</td>
<td>Power Supply / VAC 110~220V, 50/60Hz, 5V 8A, Power Supply</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0℃ ~ 45℃ (32 ℉ ~ 122 ℉)</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40℃ ~ 85℃ (-40℃ ~ 185℃)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>5% ~ 95% (Non-condensing)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>H x W x D (55mm x 440mm x 313mm)</td>
</tr>
<tr>
<td>Weight(kg)</td>
<td>4.7kg</td>
</tr>
</tbody>
</table>

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Hardware Specification
AP-GSS1000 GSM SIM Server

Front Side View

- LAN0 Port
- LAN1 Port
- Console Port
- Power Inlet (110~220V)
- Power Switch

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Hardware Specification
AP-GSS1000 GSM SIM Server

Back Side View

32ch SIM Slot Module
Hot-Swap Button
SIM Bank Module Specification

AP-GSS1000 GSM SIM Server

SIM Bank Module

AP-N1-SIM32  32ch GSM SIM Slot Module

SIM Status LED : Dual Color LED

Hot-Swap Button
SIM Bank Module Specification
AP-GSS1000 GSM SIM Server

GSM SIM Server Service Diagram

32ch x 4Slot = 128ch Service Diagram

AP-N1-SIM32
FPGA
Remote SIM
32ch SIM Card Module

AP-N1-SIM32
FPGA

RISC CPU
Memory
MAC RJ45

GSM Gateway AP-GS916
LAN
LAN
LAN
Internet

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Network Protocols

Basic Network Protocols
- ARP, IPv4, TCP, UDP, ICMP, SCTP, IGMP, MLD

Routing Protocol
- IPv4: Static

Service Protocol
- FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
- CDP (Cisco Discovery Protocol)
- DNS Resolver, DDNS(nsupdate)
- Bridge
- Syslog

IPv4 Address Configuration
- Fixed (Static)
- DHCP
- PPPoE

Miscellaneous
- Cisco Style CLI
- Standard & Extended IPv4 Access List
- Multi-level User Account Management
- IP accounting
- STUN Client
Network Management

AP-GSS1000 GSM SIM Server

• SNMP
  – Standard Simple Network Management Protocol (SNMP) Agent support
  – MIB v1 and v2 Support

• Web-based Management
  – Smart Web Manager

• Watch-dog Function
  – Hardware, Software watch-dog services

• Remote Management
  – Telnet
  – Rlogin

• Auto Upgrade Service
  – HTTP server based APOS image and configuration file auto-upgrade support

• Batch Job Function
  – Text based script downloading

• Interoperable with Smart NMS Service
  – AddPac Smart Network Management System

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Security Management
AP-GSS1000 GSM SIM Server

- IP packet filtering
- IP access list
- User authentication function
  - Password Authentication Protocol (PAP)
  - Challenge Handshake Authentication Protocol (CHAP)
- Enable/Disable specific protocols
- Auto-square connect of Telnet session
- Account Management function for multi-level user
- SNMP/TELNET/FTP/HTTP/TFTP port assignment function
- SNMP/TELNET/FTP access list management
- Boot mode security checking function
Standard Application
AP-GSS1000 GSM SIM Server

New York
PSTN

IP Network (WAN)
MG
EMS
SIP
BS
GK
Remote SIM
LAN
AddPac GSM Gateways

Moskva
PSTN

GSM Network
GSM Terminal

AddPac GSM SIM Server

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Ordering Information

• AP-GSS1000 GSM SIM Server Hardware
  – AP-GSS1000 GSM Gateway Main Body
  – Quad(4) Module Slots
  – High-end Programmable RISC Microprocessor
  – 2-port 10/100Mbps Fast Ethernet(RJ45)
  – 1-Port RS232C Console Interface(RJ45)
  – Option Module : AP-N1-SIM32 GSM SIM Bank Module
    – Including Network Cable, Antenna, etc.

• Built-in APOS Internetworking Software for AP-GSS1000

• Including 1 Year Hardware Warranty

• Product Documents
  – Install and Operation Guide (PDF)

• Pricing
  – AddPac Technology Regional Sales Manager
  – Authorized Sales and Marketing Representatives
  – Please Contact www.addpac.com
Thank you!

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