

AP5500™ (128 Port) Large Scale VoIP Gateway

High Performance VoIP Gateway Solution

32-Port FXS Module(MGSA) Features



AddPac Technology

2011, Sales and Marketing

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Product Overview

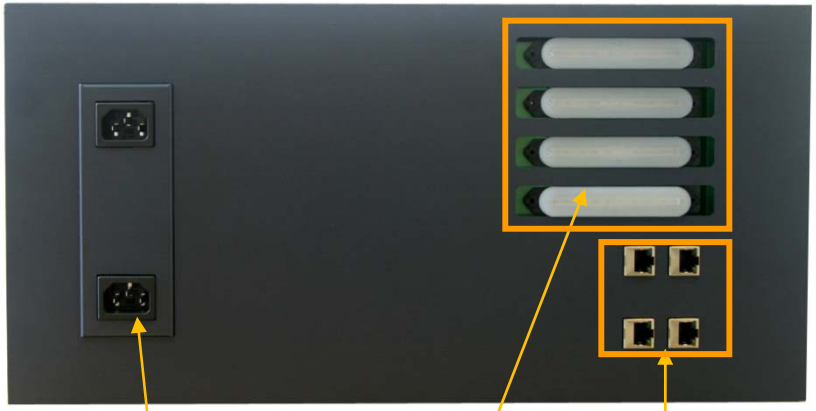
AP5500 Large Scale VoIP Gateway

- SIP VoIP Stack (Redundancy Mode : Dual CPU Mode)
- H.323/SIP/MGCP Concurrent VoIP Stack (Single CPU Mode)
- High Performance RISC Microprocessor for System Control
- Dual Power Redundancy (AC, DC) selectable at ordering
- Optional Dual CPU Board Support for Active/Standby System Redundancy
- Hot-Swap Function Support
- Up to 128 Analog Interface Port (32Port Board x 4 ea) Support
- Two(2) 10/100/1000Mbps Giga-bit Ethernet Interface
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- VPMS (VoIP Plug&Play Management System) for Large Scale Deployment
- Advanced Voice QoS Mechanism

Hardware Specification

AP5500 Large Scale VoIP Gateway





CPU

32Port FXS Board

Console Port

Power Module A

Power Module B

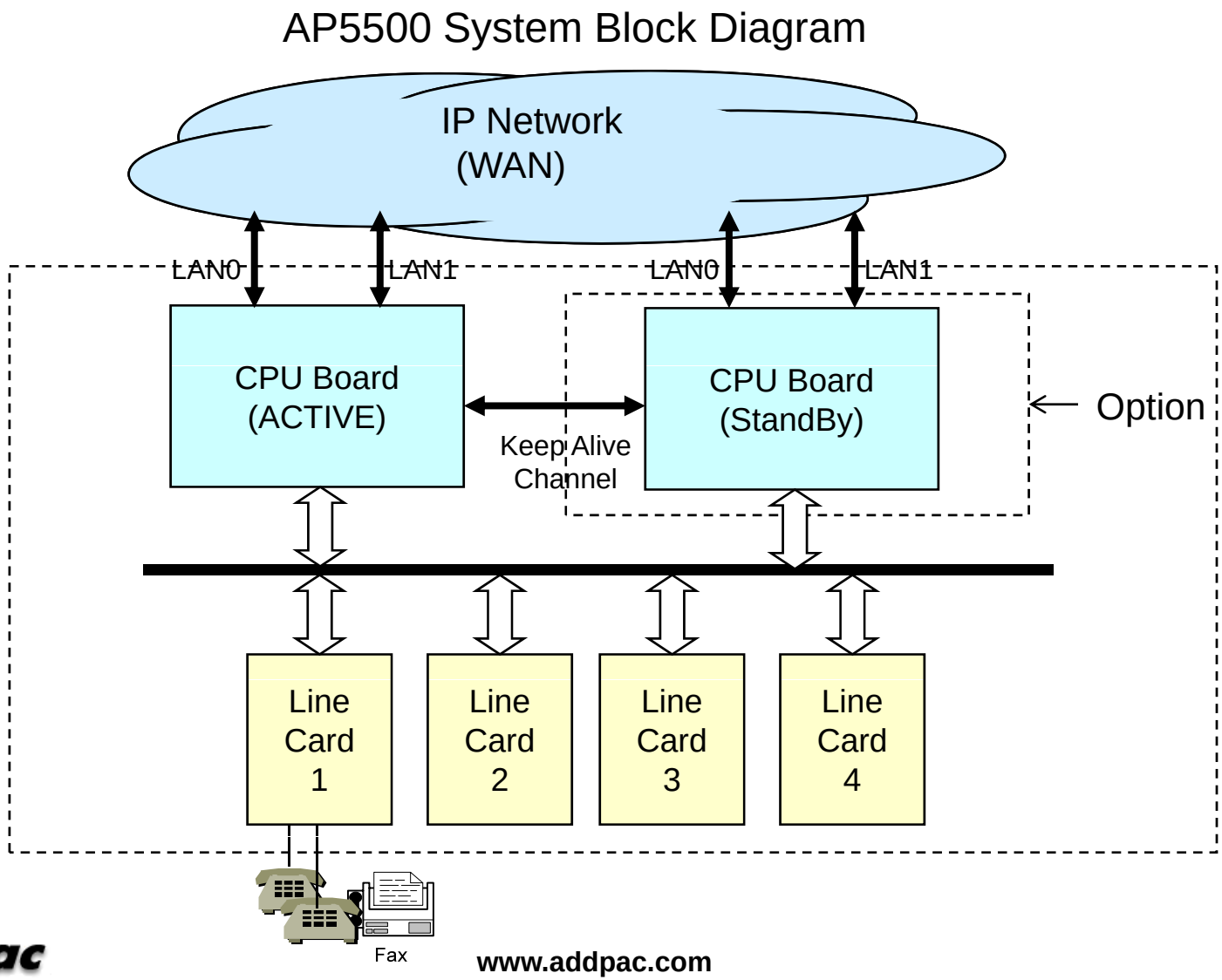
AC Power Input

32 Port Analog Interface Connector

Giga Ethernet Interface

System Block Diagram

AP5500 Large Scale VoIP Gateway



32-Port FXS Modules(MGSA)

MGSA : Media Gateway Subscriber Assembly

MGSA Module Comparison

AP5500 Large Scale VoIP Gateway

Product	MGSA-FXS32	MGSA-FXS32-N1
		
Distance	Long Reachable Distance for Next Generation Network Service	Short & medium Reachable Distance
Analog Ports	32 Port FXS Module	32 Port FXS Module
Connector	Champ Connector	Champ Connector
Caller ID	Support	Support
Hot-Swap	Support	Support
DSP based Voice Codec	G.711,G.729,G.723, etc	G.711,G.729,G.723, etc
Ringing Voltage	Programmable : Typical 80Vrms	65Vrms
REN	5	3

MGSA-FXS32 Module

MGSA-FXS32 Module Diagram

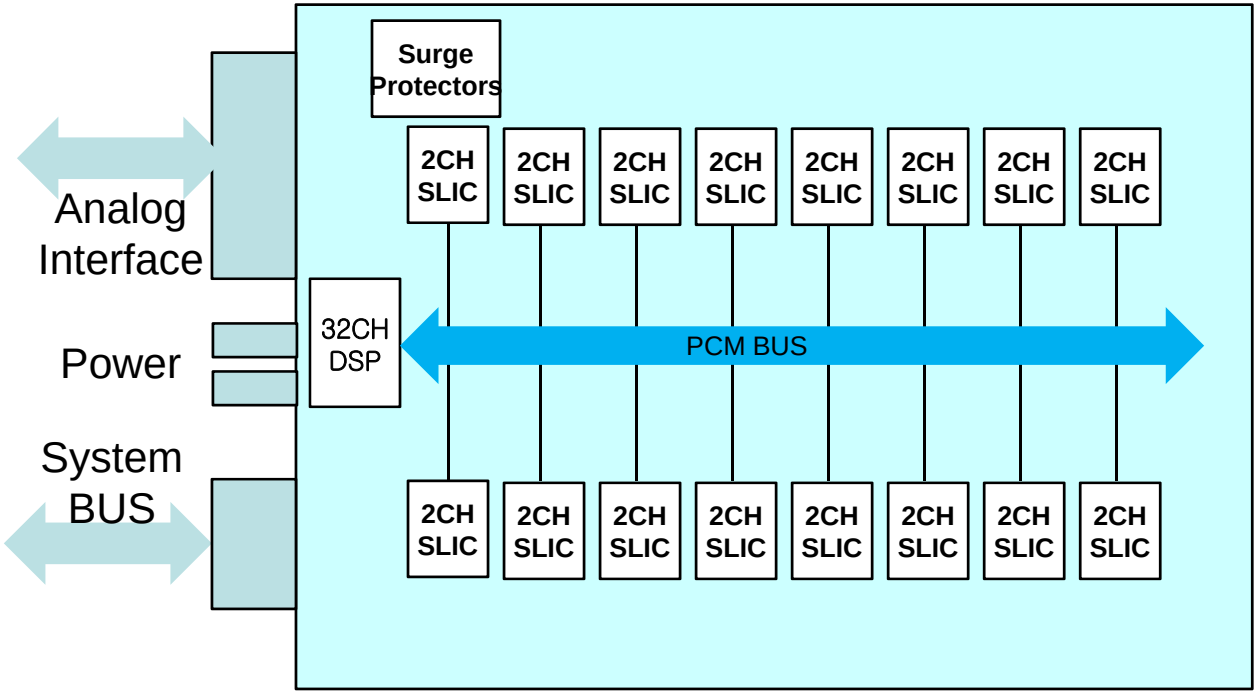
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MGSA-FXS32 Module Block Diagram

AP5500 Large Scale VoIP Gateway

MGSA : Media Gateway Subscriber Assembly



MGSA-FXS32 Module Service Features

AP5500 Large Scale VoIP Gateway

- Long Reachable Distance for NGN Service
- SLIC Ringing
  - 5REN with pin for pin compatible 150V SLIC Device
  - Up to 140-Vpk Internal balanced sinusoidal or trapezoidal ringing with Programmable offset : Typical 80Vrms
  - Unbalanced ringing for PBX trunk compatibility
- SLIC Programmability
  - Ringing Frequency, Voltage and Current Limit
  - Two-wire AC impedance, Balance Impedance, Gain
  - DC feed Voltage and Current Limit
  - Unbalanced ringing for PBX trunk compatibility
- Powerful Surge Protection (more than 1.5Kv)
- Universal Caller ID
- DSP based G.711, G.729, G.723.1, etc High Quality Voice Codec
- Voice QoS (Delay, Jitter, etc) Support for end-to-end Voice Quality

MGSA-FXS32-N1 Module

MGSA-FXS32-N1 Module Diagram

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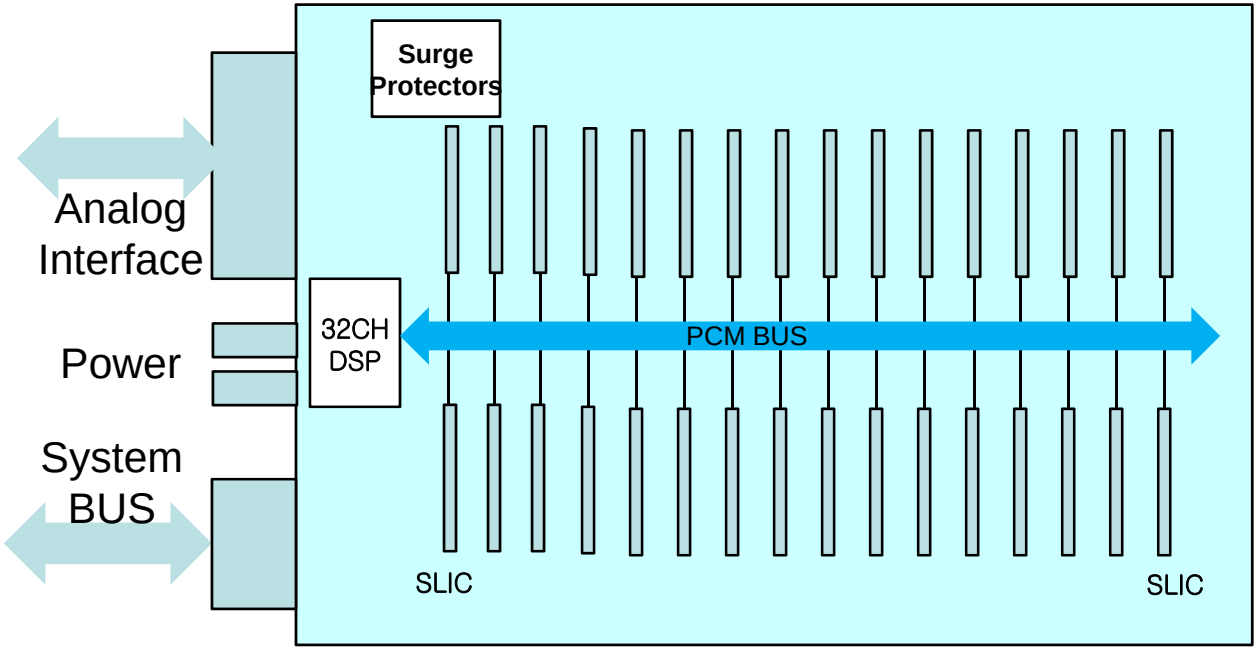
MGSA : Media Gateway Subscriber Assembly



MGSA-FXS32-N1 Module Block Diagram

AP5500 Large Scale VoIP Gateway

MGSA : Media Gateway Subscriber Assembly



MGSA-FXS32 Module Service Features

AP5500 Large Scale VoIP Gateway

- Loop Length : Typically 3.0Km (800 ohm including telephone)
- Tip/Ring Polarity Reversal. On-Hook Transmission for Caller ID
- Ringing
  - 65Vrms is applied to a single handset
  - Greater than 40Vrms into a REN of 3
- Powerful Surge Protection (more than 1.5Kv)
- DSP based G.711, G.729, G.723.1, etc High Quality Voice Codec
- Voice QoS (Delay, Jitter, etc) Support for end-to-end Voice Quality

Thank you!

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