Satellite based VoIP Communication Solution

AddPac

AddPac Technology

Sales and Marketing

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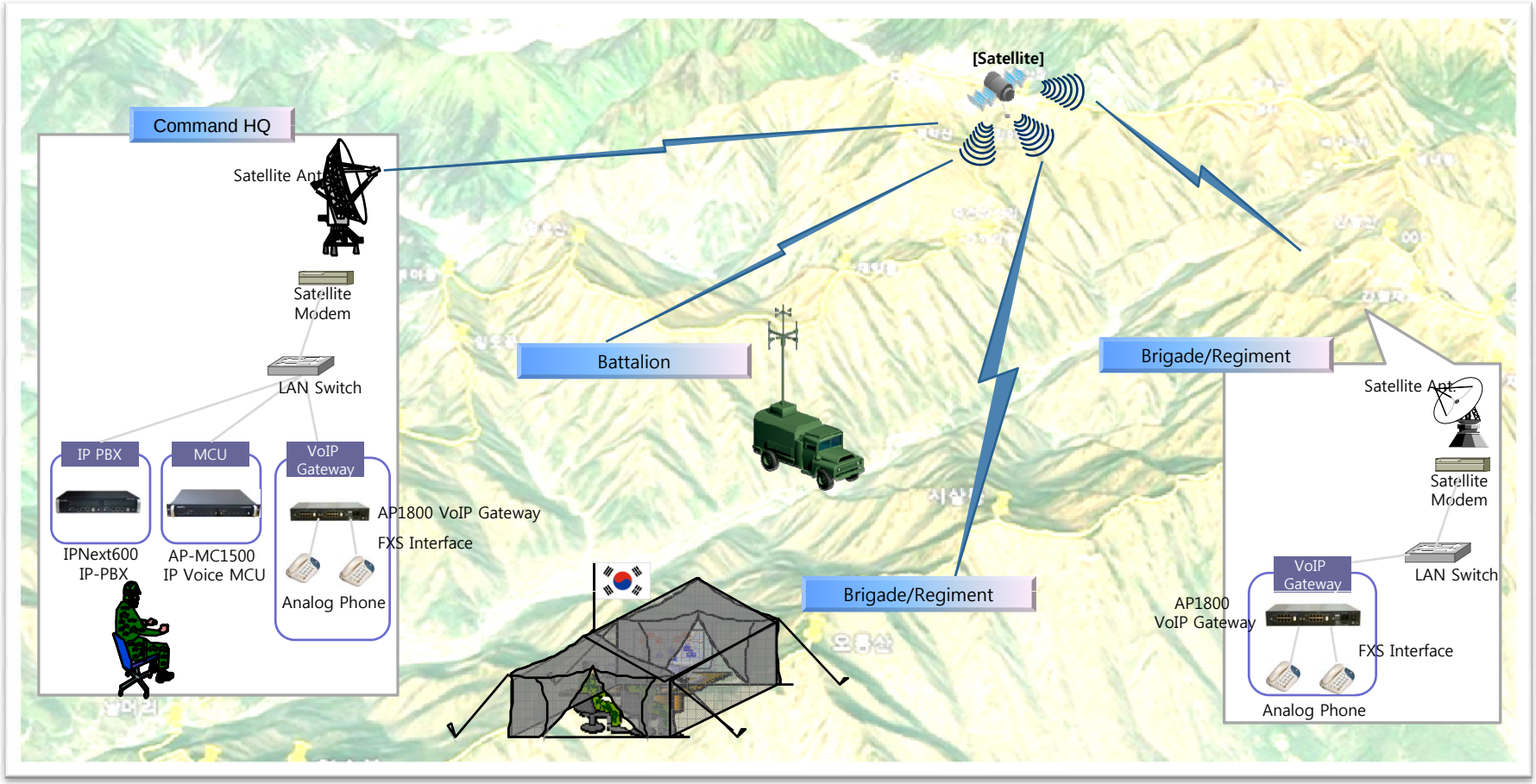
Satellite IP Telephony Network Service Diagram



AddPac VoIP Gateway Features for Satellite VoIP Communication

- Strong QoS Function : Packet Loss, Packet Jitter
- Advanced Transmit Scheduler Function : VoIP Traffic Shaper
- Low Bit Rate VoIP Codec Support : G.723.1, G.729A, etc
- VoIP Signaling/Traffic Security Protocols : TLS/SRTP Support
- New Enhanced Security Protocols : SSH, HTTPS, SFTP, TCPM5, Password Management

Satellite IP Telephony Solution Devices

IPNext3000 IP-PBX
(One System, Dual IP-PBX)

Main Features

IPNext3000 Next Generation IP-PBX

- IP based Advanced Mobile IP-PBX Solution
- IPv4/IPv6 Multimedia Telephony Solution for Large Office
- System Duplication Support (Dual System Board, Dual Power Supply)
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- IVR Service with Scenario Editor
- Voice Mailing Service
- Presence Service for High-End IP Phone, Video Phone, UC
- RTP Proxy Service for Private IP service
- SIP, H.323 Signaling for Outbound Calls
- Various Call Scenario (Call Pickup, Call Park, Call Transfer, etc)
- Various IP Multimedia Terminal Support

Hardware Specification

IPNext3000 Next Generation IP-PBX

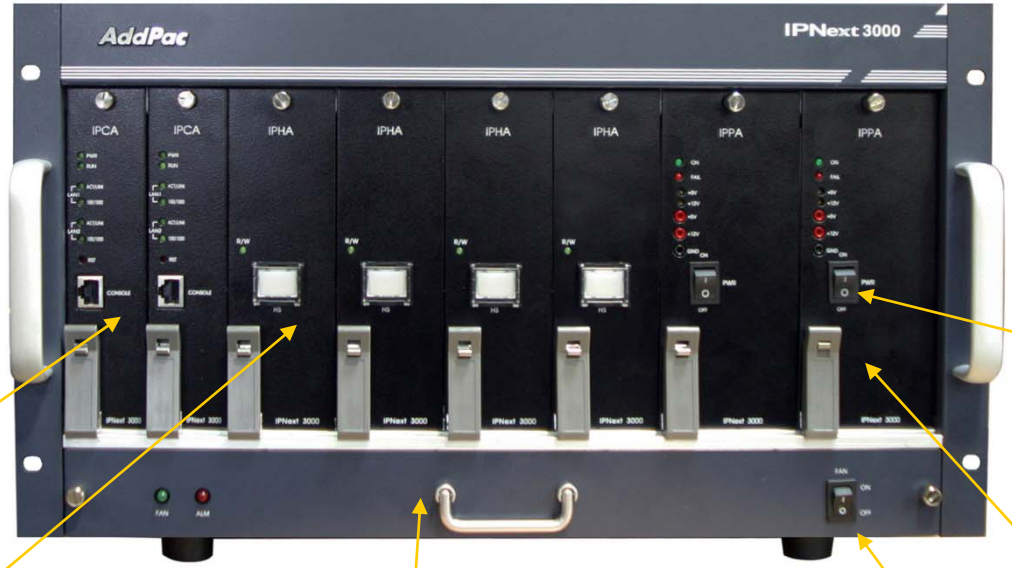
- 64bit High-End Microprocessor Computing Power
- Main Chassis
  - Dual Redundancy CPU Boards for System Fault Tolerant
    - Two(2) 10/100/1000Mbps Gigabit Ethernet
    - One(1) RS-232C Console (RJ45)
    - Two(2) 3.5 Inch Hard Disk Interface Slot (RAID 1)
  - Dual Redundancy Power Supply Module
  - Hot-Swap Features

Hardware Specification

IPNext3000 Next Generation IP-PBX

RISC CPU

IPNext3000 Front Side



CPU Board
(Hot-Swap)

Dual 3.5 Inch
HDD Disks(RAID1)
: Hot-Swap

FAN Tray for Air Cooling

Power On/Off Switch
for System

Dual Power Supply
Modules
(Hot-Swap)

Power On/Off Switch
for FAN Tray

Hardware Specification

IPNext3000 Next Generation IP-PBX

RISC CPU

IPNext3000 Back Side

IPNext600 IP-PBX
(One System, Dual IP-PBX)

Main Features

IPNext600 Next Generation IP-PBX

- SIP Application Server, Proxy, Registrar and Location Server
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Dual System Redundancy Architecture
  - Two(2) Fast Ethernet Interface / System
- High Performance RISC Architecture
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- IPv4/IPv6 Dual Stack
- RTP Proxy Function Embedded for Private IP and IPv6 Address Interworking
- User Presence Service Features for Smart Multimedia Messenger and Smart IP Phone
- IVR Scenario Editor, Voice Mail, Media Service (Coloring), Conference
- Firmware Upgradeable Architecture
- Smart Multimedia Manager for IP-PBX Management
- Smart Messenger Service (click to dial) for Unified Communication
- VPMS (VoIP Plug&Play Management System) & Smart NMS for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Dual Redundancy Power Module

Hardware Specification

IPNext600 Next Generation IP-PBX

RISC CPU

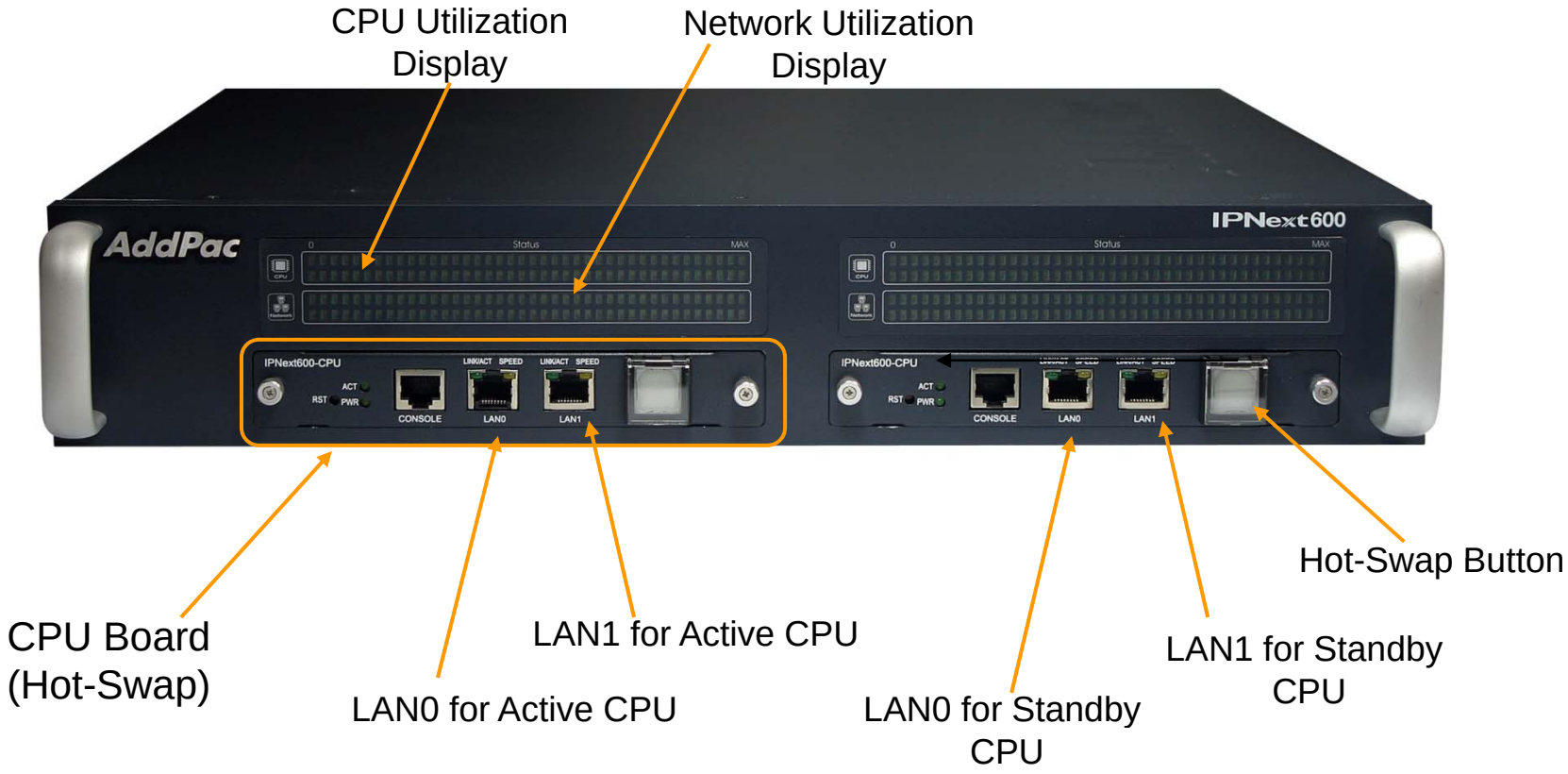
- 64bit High-End Microprocessor Computing Power
- Main Chassis
  - Dual Redundancy CPU Boards for System Fault Tolerant
    - Two(2) 10/100Mbps Gigabit Ethernet
    - One(1) RS-232C Console (RJ45)
  - Dual Redundancy Power Supply Module
  - Hot-Swap Features

Hardware Specification

IPNext600 Next Generation IP-PBX

RISC CPU

IPNext600 Front Side



Hardware Specification

IPNext600 Next Generation IP-PBX

RISC CPU

IPNext600 Back Side

Dual Power Supply Modules (Hot-Swap)

PSU Module A

PSU Module B

Power On/Off Switch for System

AP-MC1500
IP based Audio MCU

IP based Audio MCU

AP-MC1500 IP based Audio MCU

Main Features

- IP based Hardware Audio Mixing Solution
- Support Various Conference System Model

  -Add-Hoc, Meet-Me, Dial Out
- Two(2) Module Slots for Audio MCU Module, Network Interface Modules
  - HIM-AMCU128, HIM-AMU64, etc
- Scalability and Flexibility
- G.711, G.726, G.729, G.723,1, etc
- High-performance Audio Mixing Service
- SIP and H.323 VoIP Signaling Support
- Smart Multimedia Manager Software for Management
- Firmware Upgradeable Architecture
- Audio Solution with Outstanding Network Service Capability

IP based Audio MCU

AP-MC1500 IP based Audio MCU

Hardware Specification

- High Performance RISC Microprocessor Computing Power
- Built-in High-end Programmable DSP Hardware Architecture
- Two(2) Module Slots for Audio MCU Module, Network Interface Module
- Main Chassis
  - Network Interface
    - Two(2) 10/100Mbps Fast Ethernet
    - One(1) RS-232C Console (RJ45)

IP based Audio MCU

AP-MC1500 IP based Audio MCU

Hardware Specification

- 128ch MCU Module (HIM-AMCU128)
  - High quality Audio Mixing
  - 128Channel Audio Mixing
  - Compact PCI Style Hot-Swap Function
  - High-End Programmable DSPs
  - Parallel DSP Processing for High Quality Audio Mixing
  - Concurrent Different Audio Codec Support

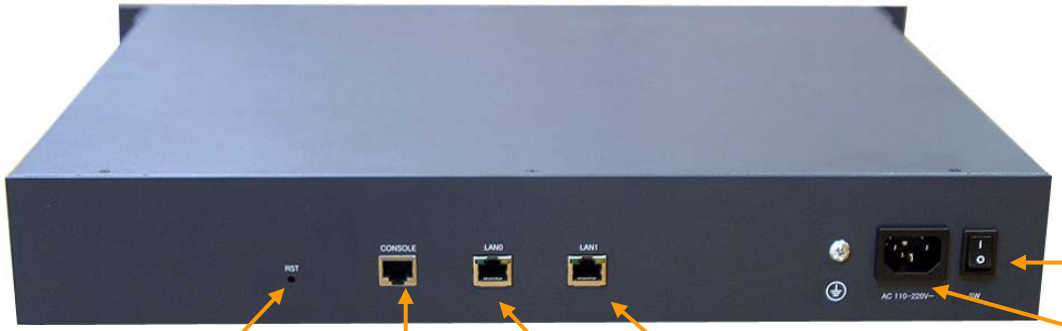
- 64ch MCU Module (HIM-AMCU64)
  - High quality Audio Mixing
  - 64 Channel Audio Mixing
  - Compact PCI Style Hot-Swap Function
  - High-End Programmable DSPs
  - Parallel DSP Processing for High Quality Audio Mixing
  - Concurrent Different Audio Codec Support
  - Cascade Support

IP based Audio MCU

AP-MC1500 IP based Audio MCU

Hardware Specification

Audio MCU Module (128ch, 64ch)



Power Switch

Power Inlet

LAN1 10/100Mbps Interface

LAN0 10/100Mbps Interface

Reset

RS232C Console Port

AP1800
Analog/Digital VoIP Gateway

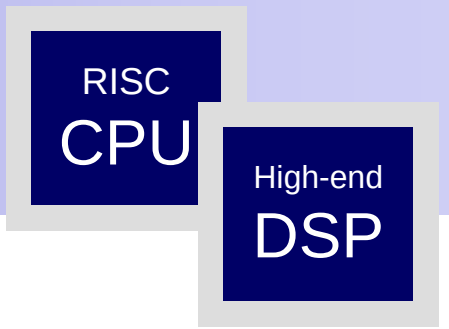
Product Overview

AP1800 VoIP Gateway

- High Performance Analog/Digital VoIP Gateway Solution
- H.323/SIP Dual Concurrent Stack Embedded
- High Performance RISC & Programmable DSP Architecture
- Two(2) 10/100Mbps Fast Ethernet (IP Share, etc)
- High Performance LAN-to-LAN Routing Capability
- G.711/G.726/G.723/G.729, T.38 Fax , VAD, etc
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc)
- Firmware Upgradeable Architecture
- Smart NMS for Large Scale Deployment
- Advanced Voice QoS Mechanism
- Light and Compact Design with Internal Power Supply
- Two(2) VoIP Module Slot : 1-Port Digital E1, 8-Port FXS, 8-Port FXO, etc

Hardware Specification

AP1800 VoIP Gateway



- RISC Microprocessor Computing Power
- Up to 16 Port Analog VoIP Gateway
- Two(2) VoIP Module Slots (Hot-Swap)

  - 8-Port FXS Card, 8-Port FXO Card, 4-Port FXS 4-Port FXO Card , Digital E1/T1 Card
- Network Interface

  -Two(2) 10/100Mbps Fast Ethernet (RJ45)
- RS232C Console Interface
- Run LED, LAN LED, Port LEDs
- Internal Power Supply

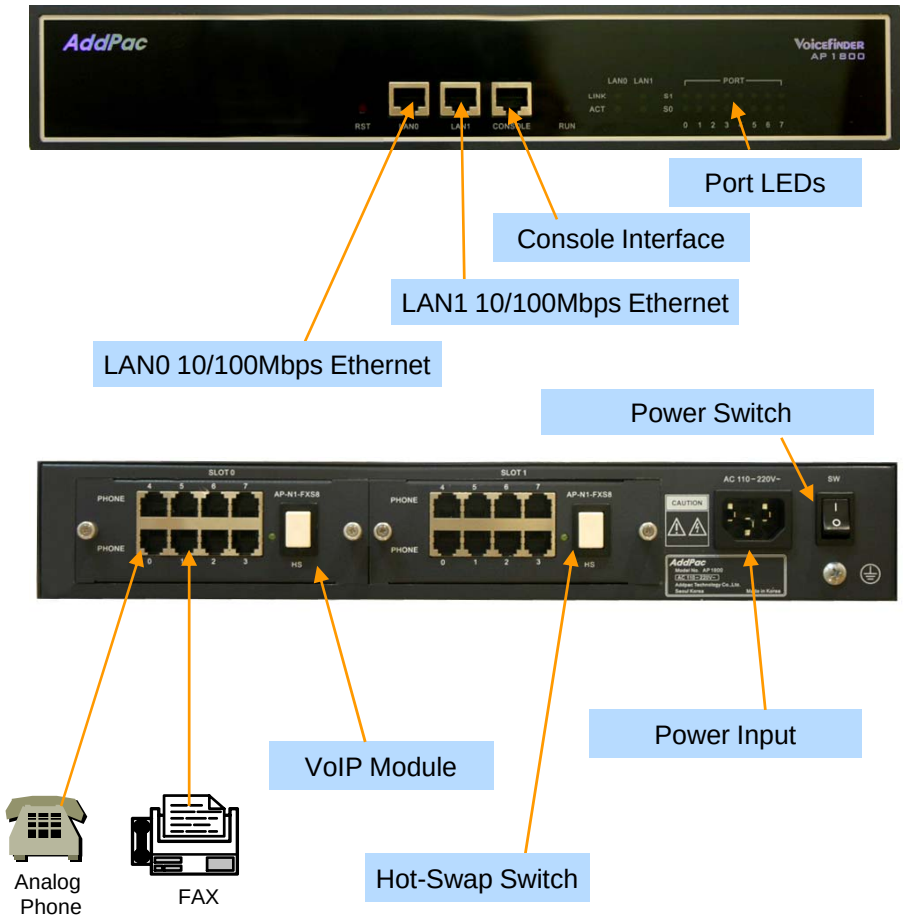
Hardware Specification

AP1800 VoIP Gateway

Hardware Specifications

AP1800 VoIP Series	Basic Specifications
Voice Interface	Two(2) VoIP Module Slots
	AP-N1-FXS8, AP-N1-FXO8, AP-N1-FXS4O4, AP-N1-E1
Ethernet Interface	2-Ports 10/100Mbps Ethernet Interface(RJ-45)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	32 Mbyte High-speed SDRAM
Power Requirement	Power Supply Adaptor / VAC 110~220V, 50/60Hz,
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)

Network interface Configurations



VoIP Module Hardware Specification

AP1800 VoIP Gateway

DSP

Target	VoIP Modules	Module Features	Module Picture
AP1800	AP-N1-FXS8	8-Port FXS Module	
AP1800	AP-N1-FXO8	8-Port FXO Module	
AP1800	AP-N1-FXS4O4	4-Port FXS&4-Port FXO Module	
AP1800	AP-N1-E1	1-Port Digital E1/T1 Module	
AP1800	AP-N1-2E1	2-Port Digital E1/T1 Module	

AP-IP90E
Analog FXO + IP Phone
for Headset Interface

Product Overview

AP-IP90 IP Phone

- IP Phone Solution
- FXO Analog Interface Support
- Analog Phone Service via FXO
- Headset Interface Support
- Two(2) LAN Interface Support
- Various VoIP Voice Codec Support
- High-performance Audio, and Voice Service
- Firmware Upgradeable Architecture
- VoIP Solution with Outstanding Network Service Capability
- Audio Privacy Protection

Hardware Specification

AP-IP90 IP Phone

- RISC+DSP Microprocessor Computing Power
  (Dual Processor Architecture)
- Optional PSTN Backup (FXO) Interface : AP-IP90E
- High quality Audio and Voice Interface
  - Stereo Audio Input Connector
  - Stereo Audio Output Connector
- Network Interface
  - Two(2) 10/100Mbps Fast Ethernet
- Graphic LCD Window
- Power Supply
  - External Power Adaptor (5V, 2A)

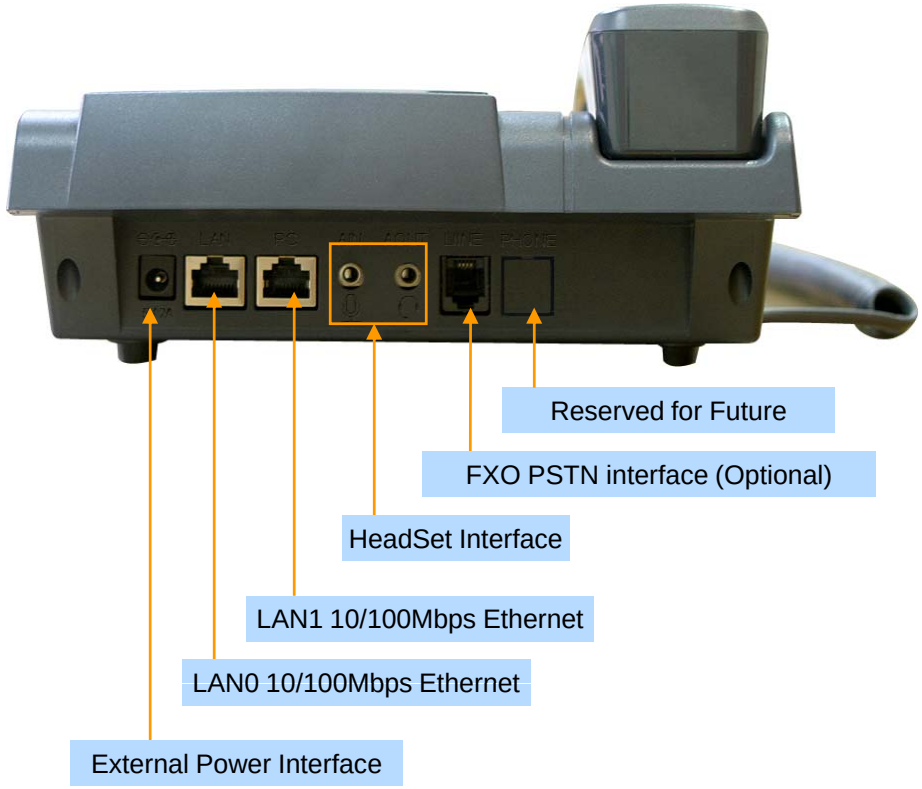
Hardware Specification

AP-IP90 IP Phone

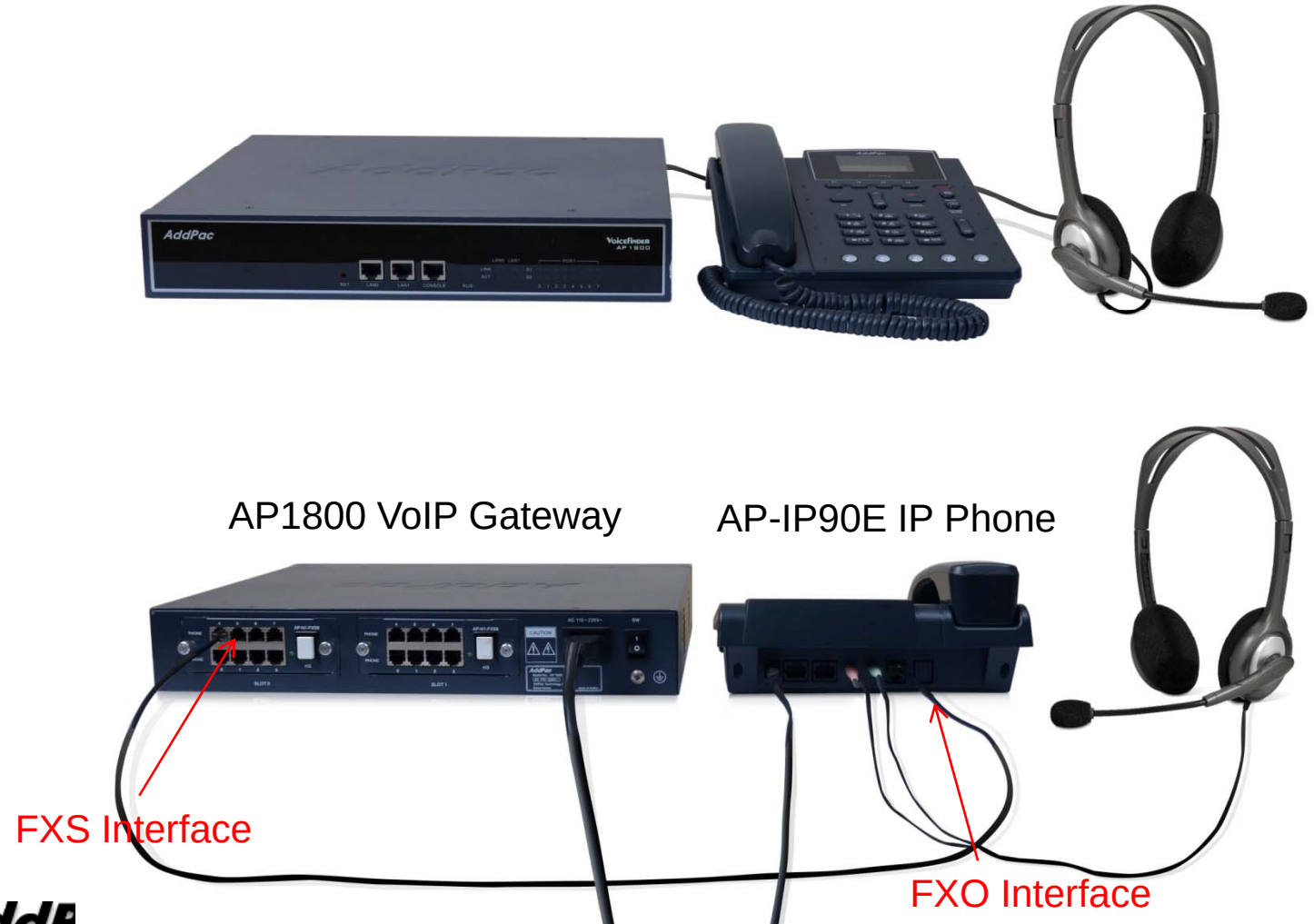
Hardware Specifications

AP-IP90 IP Phone	Basic Specifications
CPU	RISC Microprocessor
Ethernet Interface	2-Ports 10/100Mbps Ethernet Interface(RJ-45)
PSTN Port (Optional)	1-Port FXO PSTN Port(RJ-11)
Flash Memory	4Mbyte High-speed Flash Memory
Base Memory	16Mbyte High-speed SDRAM
Power Requirement	External Power Supply Adaptor / VAC 110~220V, 50/60Hz, 10Watt
Operating Temperature	0ºC ~ 45ºC (32 ºF ~ 122ºF)
Storage Temperature	-40ºC ~ 85ºC (-40ºC ~ 185ºF)
Relative Humidity	5% ~ 95% (Non-condensing)
Dimensions	W x D x H (200mm x 210mm x 60mm)
Weight (g)	1Kg

Network interface Configurations



Interconnection between AP1800 FXS Port and AP-IP90E FXO Port



Thank you!

AddPac Technology Co., Ltd.
Sales and Marketing

Phone +82.2.568.3848 (KOREA)
FAX +82.2.568.3847 (KOREA)
E-mail sales@addpac.com