AP2620 SIP VoIP Gateway + SIP Audio Broadcasting Terminal

High Performance SIP Audio Broadcasting Terminal





AddPac Technology

2015, Sales and Marketing

Contents

- Product Overview
- Product Highlight
- Hardware Specification
- APOSTM Service Features
- VoIP Service Features
- SIP Broadcasting Network Diagram
- Paging Group Signal Flow
- Paging Group Configuration (Server Side)
- Ordering Information



Product Overview

- High Performance VolP Gateway Solution
- SIP Protocol based Audio Broadcasting Terminal Solution
- RTP (Real-time Transport Protocol) Support for Media Transmission
- IP based Audio Broadcasting Terminal Solution (AddPac Proprietary Protocol)
- Hardware Architecture for Audio Broadcasting Terminal Service
- Two(20 Module Slot for VoIP Gateway + Audio Encoding & Decoding Service
- Remote Broadcasting Service at terminal side
- VoIP Codec Support (G.711, G.726, etc)
- Unicast and Multicast Broadcasting Scheme
- SPMS (SIP Paging Management Software) Support (Paging Server Side)
- Various Audio Broadcasting Module Support
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability



Product Highlights

AP2620 SIP Audio Broadcasting Terminal

SIP based Broadcasting Terminal

Unicast & Multicast Broadcasting Service Scheme

VoIP Codec Support (G711,G.726,etc) for Broadcasting

Two(2) Module Slot for Broadcasting Audio Module

APOSTMTechnology

Multimedia Network Protocol

IP based Network Protocol & Audio/Voice Traffic QoS

SPMS (SIP Paging Management Software) Support : Paging Server Side

High Performance RISC CPU & Programmable DSP

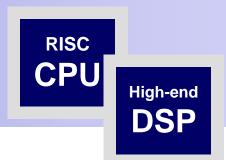
Module type Audio Card for Flexibility

AddPac Proprietary IP
Broadcasting Scheme Support

Broadband IP Networking
With Two(2)10/100Mbps Fast Ethernet

RS232C Console Interface
Support for Command Line Interface

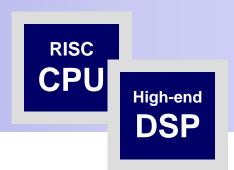




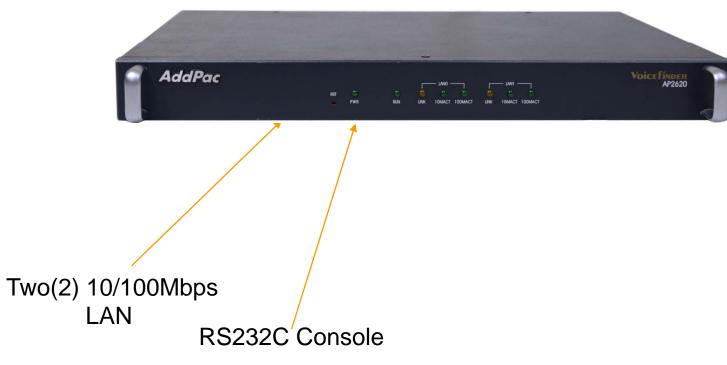
- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- Two(2) Module Slot for Audio Broadcasting Codec Module
- VoIP Audio Encoding/Decoding Service
- Two(2) 10/100Mbps Fast Ethernet Interface
- Option Module : AP-AUDIO2
 - Two(2) 3.5mm Audio Input/Output Interface
- Option Module : AP-AUD1S3
 - One(1) 3.5mm Audio Input/Output Interface
 - Three(3) FXS VoIP Interface



AP2620 SIP Audio Broadcasting Terminal

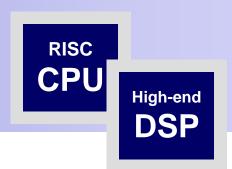


AP2620 Front Side

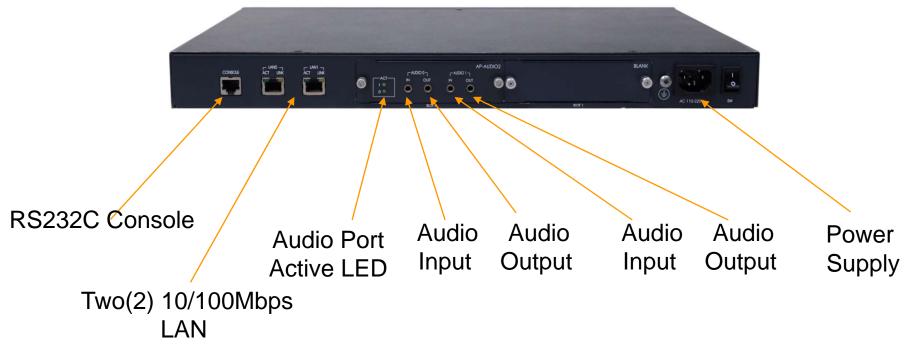




AP2620 SIP Audio Broadcasting Terminal

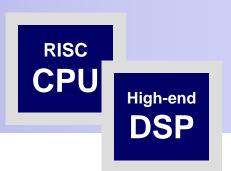


AP2620 Back Side

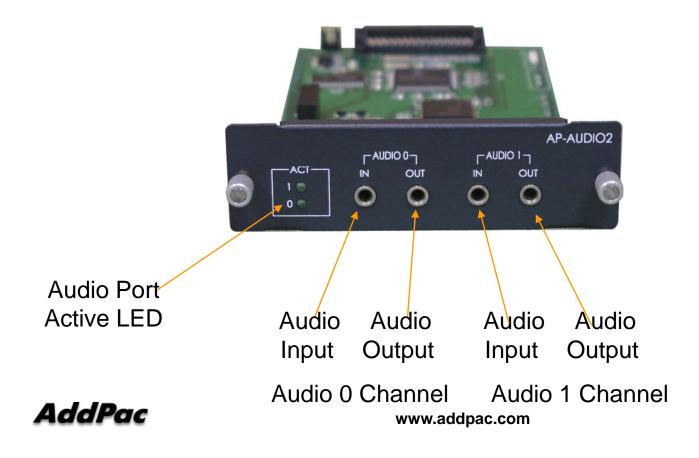




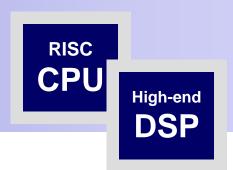
AP2620 SIP Audio Broadcasting Terminal



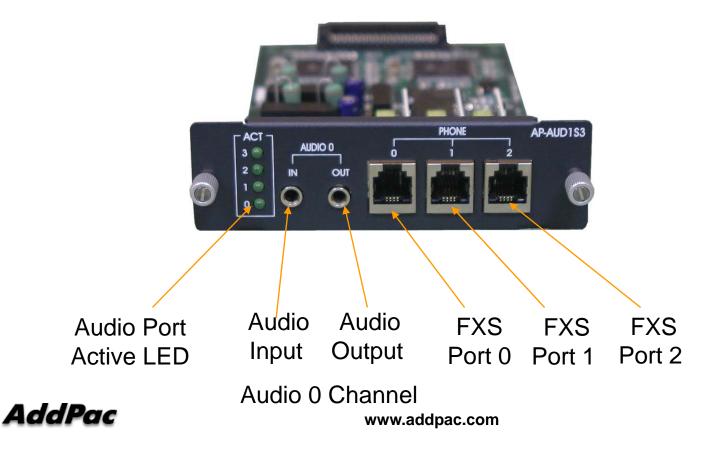
AP-AUDIO2 Board



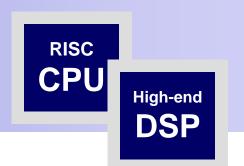
AP2620 SIP Audio Broadcasting Terminal



AP-AUD1S3 Board



AP2620 SIP Audio Broadcasting Terminal

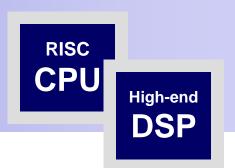


AP2620 Audio Module

Audio Module Type	Audio Module Features
AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2 AP-AUDIO2	Two(2)-Channel Audio In/Out Port
	Audio Encoding/Decoding Service
	Audio IN : MIC IN Audio OUT :Line OUT 3.5mm Stereo JACK
	G.711, G.726, G.729A, G.723.1 Audio Codec



AP2620 SIP Audio Broadcasting Terminal



AP2620 Audio Module

Audio Module Type	Audio Module Features
AP-AUD1S3	One(1)-Channel Audio In/Out Port
	Audio Encoding/Decoding Service
	Audio IN: MIC IN Audio OUT: Line OUT 3.5mm Stereo JACK Three(3) FXS Port Interface (RJ11 x 3)
	G.711, G.726, G.729A, G.723.1 Audio Codec



AP-AUDIO2 Module



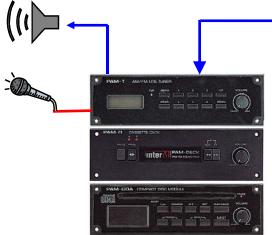


AP2620 SIP Audio Broadcasting Terminal





3.5mm Line Out JACK

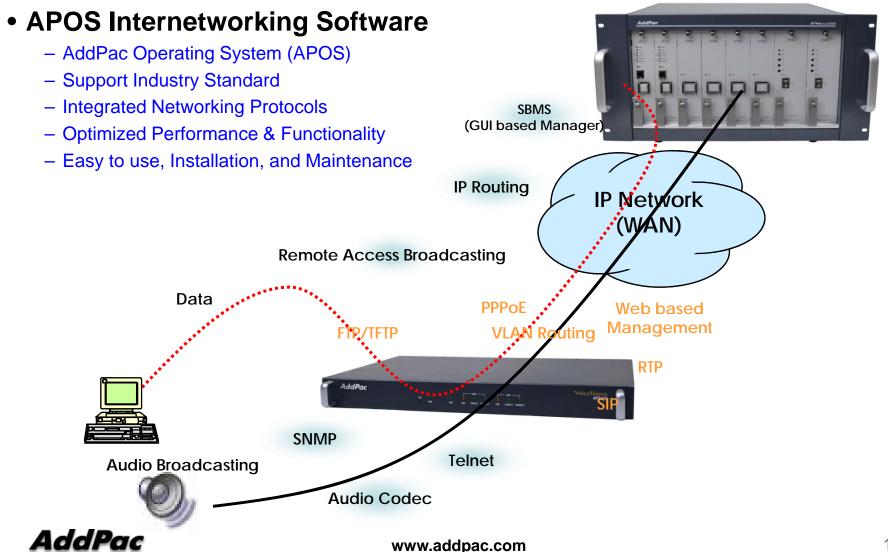


- •G.7xx Voice codec realizes IP voice broadcasting service
- •Real time VoIP Broadcasting Service using RTP (Real-time Transport Protoco) Protocol

Headphone



APOS[™] Service Features



APOS™ Service Features

AP2620 SIP Audio Broadcasting Terminal

• IP Routing Protocols IP - Multi-protocol Internetworking Services **IP Network** - Static & Default IP routing (WAN) Internet WAN Protocols **WWW** - Point-to-Point Protocol (PPPoE for ADSL) - IEEE 802.3 Ethernet - PPTP support for secure communication LAN

www.addpac.com



APOSTM Service Features

AP2620 SIP Audio Broadcasting Terminal

Network Managements

- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Telnet
- Web based Management using HTTP Server Interface

Security Functions

- Standard & Extended IP Access List
- Enable/Disable for Specific Network Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Supports (PAP & CHAP)

Operation & Managements

- System Performance Analysis for Process, CPU, Connection Interface
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Feature
- System Managements with Data Logging
- IP Traffic Statistics with Accounting



APOSTM Service Features

AP2620 SIP Audio Broadcasting Terminal

Network Protocols

- DHCP Server & Relay Functions
- Network Address Translation (NAT) Function
- Port Address Translation (PAT) Function
- Transparent Bridging (IEEE Standard) Function
 - Spanning Tree Bridging Protocol Support
 - Remote Bridging Support
 - Concurrent Routing and Bridging Support
- Cisco Style Command Line Interface (CLI)
- Network time Protocol (NTP) Support



VoIP Service Features

AP2620 SIP Audio Broadcasting Terminal

SIP Protocol Service

- Gateway-based / Endpoint-based registration support
- Secondary proxy-server assignment function
- SIP signaling port change function
- SIP proxy server assignment according to the domain name
- T.38 real-time fax relay support
- DTMF relay support with RFC2833 / OPTION message
- Re-INVITE support



VoIP Service Features

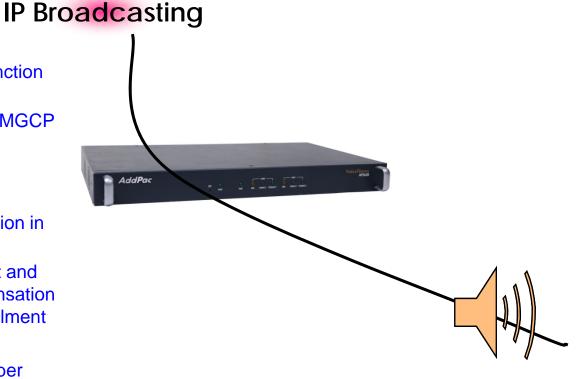
AP2620 SIP Audio Broadcasting Terminal

Voice Codec

- G.711 A-Law, G.711 U-Law
- G.726 r16, G.726 r32
- G.729A
- G.723.1 r63, G.723.1 r53
- VAD (Voice Activity Detection) function support
- DTMF relay support (H.323, SIP, MGCP common) based on RFC2833

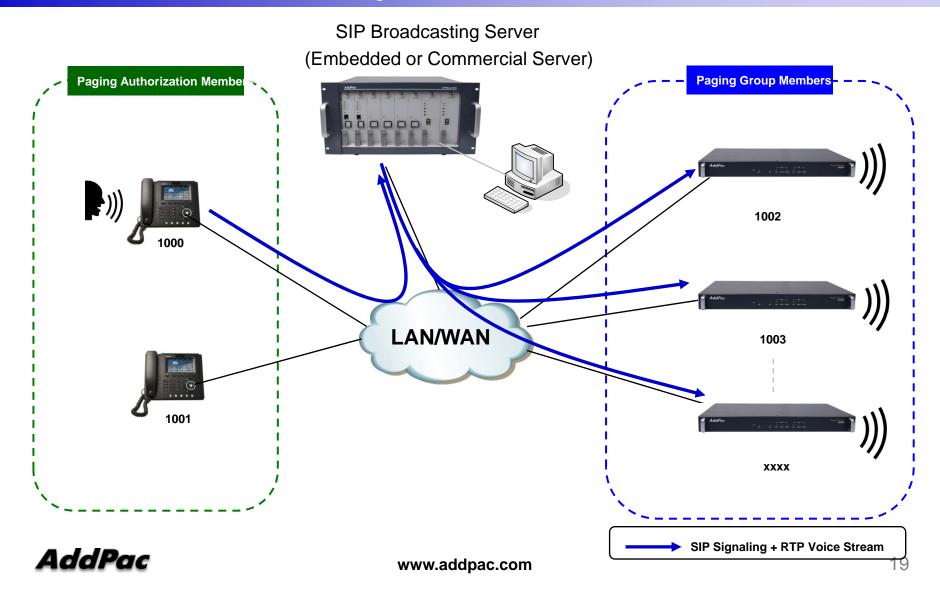
RTP Protocols

- Redundant RTP packet transmission in case of severe packet loss
- Dynamic jitter buffer management and RPT packet jitter and loss compensation with heuristic & DSP error concealment
- Static jitter buffer setting support
- Voice frame per RTP packet number control for each codec

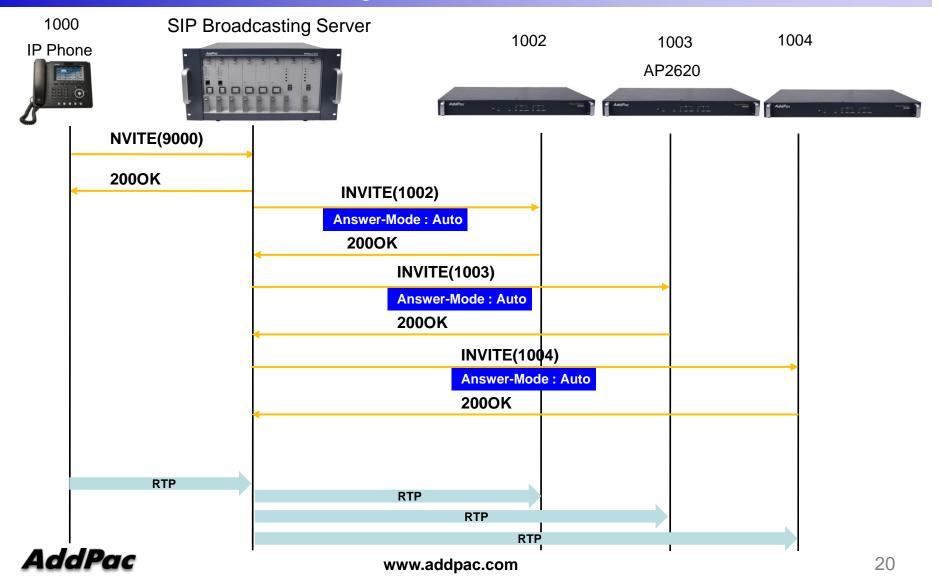




SIP Broadcasting Network Diagram



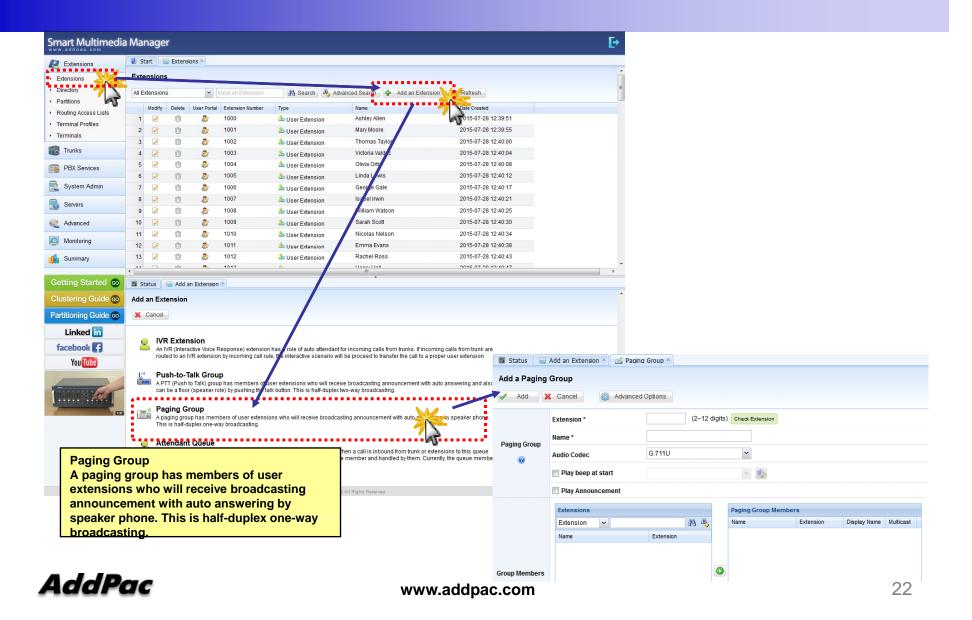
Paging Group Signaling Flow



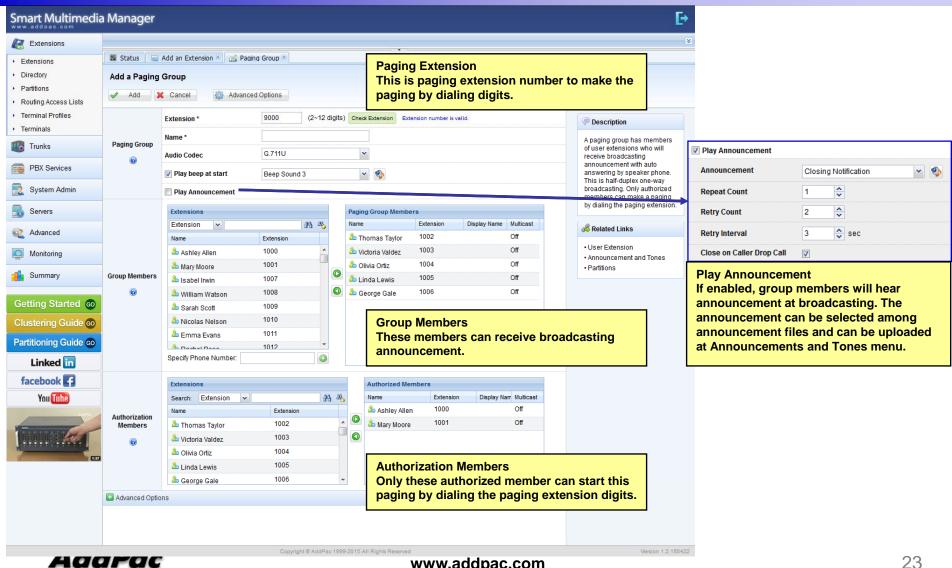
WSMM Configuration for Paging Group (WSMM: Web based Smart Multimedia Manager)



Extension — Paging Group



Paging Group Configuration



Ordering Information

AP2620 SIP Broadcasting Terminal Hardware

- AP2620 Main Body
- RISC Microprocessor with High-end Programmable DSP Architecture
- Option : AP-AUDIO2 Module , AP-AUD1S3 Module
- Including Network Cable Set & Power Supply, etc.
- Built-in APOS Internetworking Software for AP2620
- 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!

AddPac Technology Co., Ltd. Sales and Marketing

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

