### AP601 SIP Paging Terminal High Performance SIP based Paging Terminal





#### AddPac Technology

Sales and Marketing

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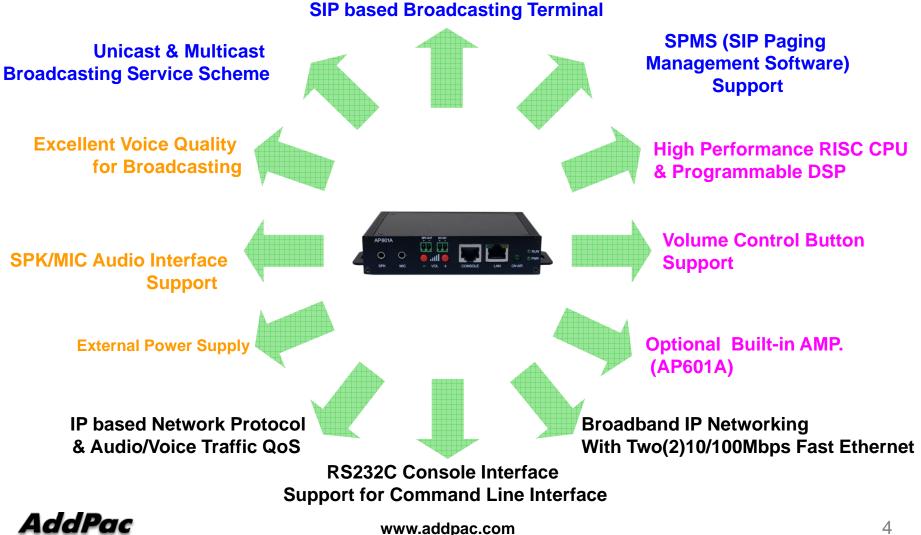
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- APOS<sup>™</sup> Service Features
- VoIP Service Features
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### **Product** Overview

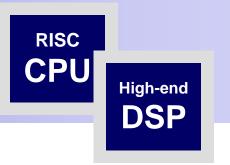
- SIP based Voice Broadcasting Terminal Solution
- Hardware Architecture for Voice Broadcasting Terminal Service
- Remote Broadcasting Service at terminal side
- High Quality Voice Codec Support (High Quality Codec, G.711, G.726, etc)
- RTP/UDP Protocol Support
- Unicast and Multicast Broadcasting Scheme
- SPMS (SIP Paging Management Software) Support
- One(1) channel SPK/MIC Port
- Volume Control Button Support (Up, Down)
- Option (AP601A) : AMP. Built-in
- High-Quality Audio/Voice Service
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability
- External Power Supply



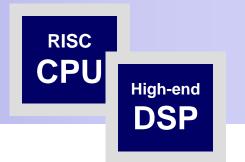
### **Product Highlights**



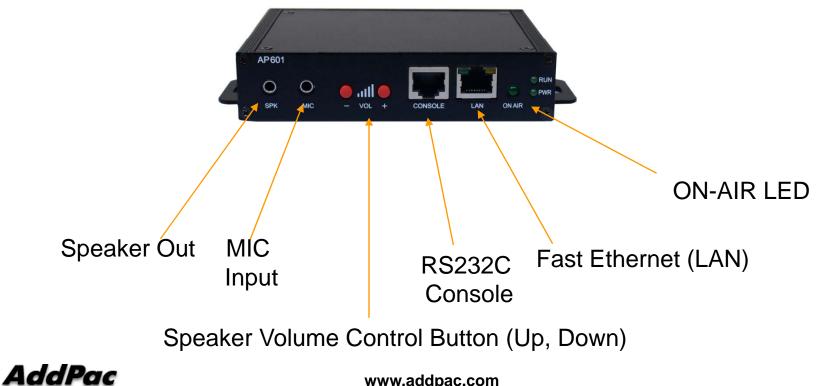
- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- High Quality Audio Encoding/Decoding Service
- One(1) 10/100Mbps Fast Ethernet (RJ45)
- One(1) RS-232C Interface (RJ45)
- SPK/MIC Audio Interface Support
- Volume Control Button Support (Up, Down)
- External Power Supply Support
- Option : 30Watt Digital AMP. Built-in (AP601A)



**AP601 SIP Paging Terminal** 

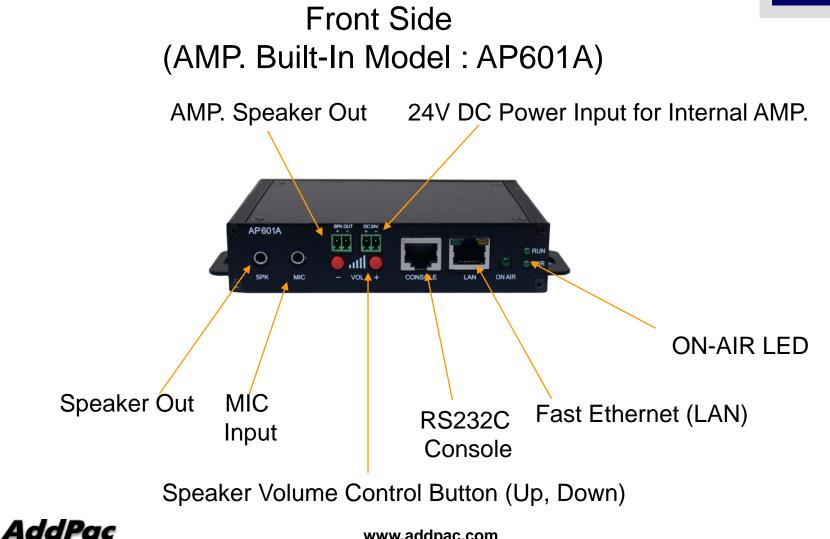


#### Front Side



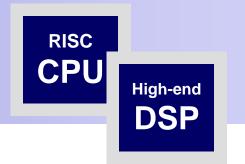
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#### **Back Side**





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#### **AP601 SIP Paging Terminal**

#### • APOS Internetworking Software

 AddPac Operating System (APOS) - Support Industry Standard - Integrated Networking Protocols SBMS (GUI based Manager) - Optimized Performance & Functionality - Easy to use, Installation, and Maintenance **IP Routing IP** Network (WAN) **Remote Access Broadcasting** Data PPPoE Web based Management **VLAN Ro** itina **RTP** SIP

Audio Codec

Audio Broadcasting



Telnet

AP601 SIP Paging Terminal

#### • IP Routing Protocols

- Multi-protocol Internetworking Services
- Static & Default IP routing

#### WAN Protocols

- Point-to-Point Protocol (PPPoE for ADSL)
- IEEE 802.3 Ethernet
- PPTP support for secure communication

**IP Network** (WAN) Internet WWW IP Voicefinder AP1602 LAN



IP

IP

IP

#### **AP601 SIP Paging 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



#### AP601 SIP Paging 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**

AP601 SIP Paging 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**

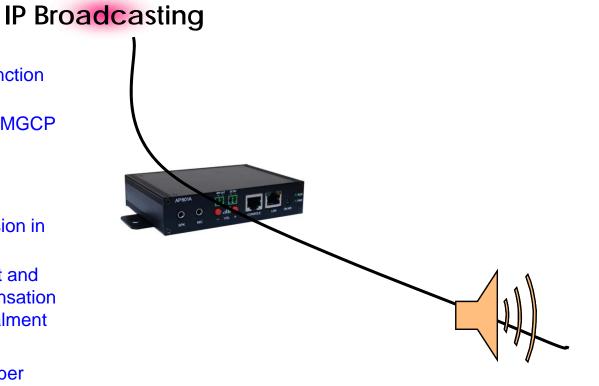
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#### Voice Codec

- 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

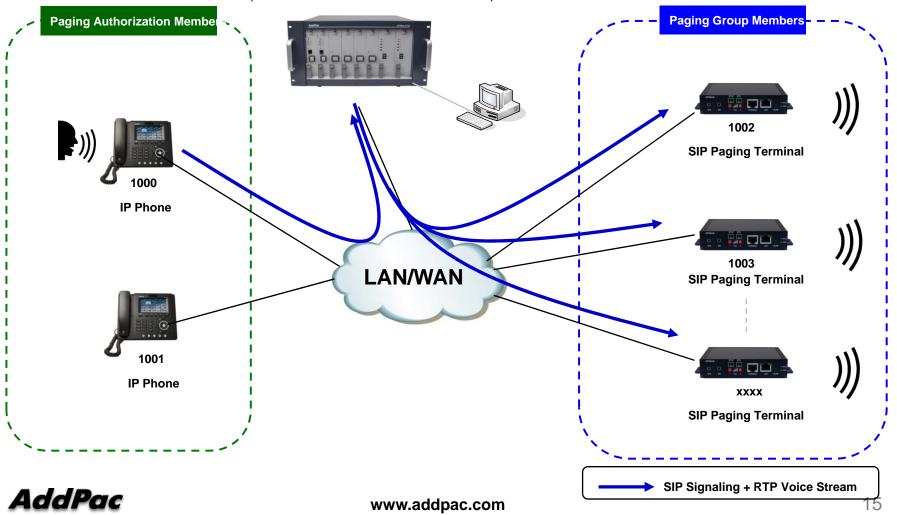




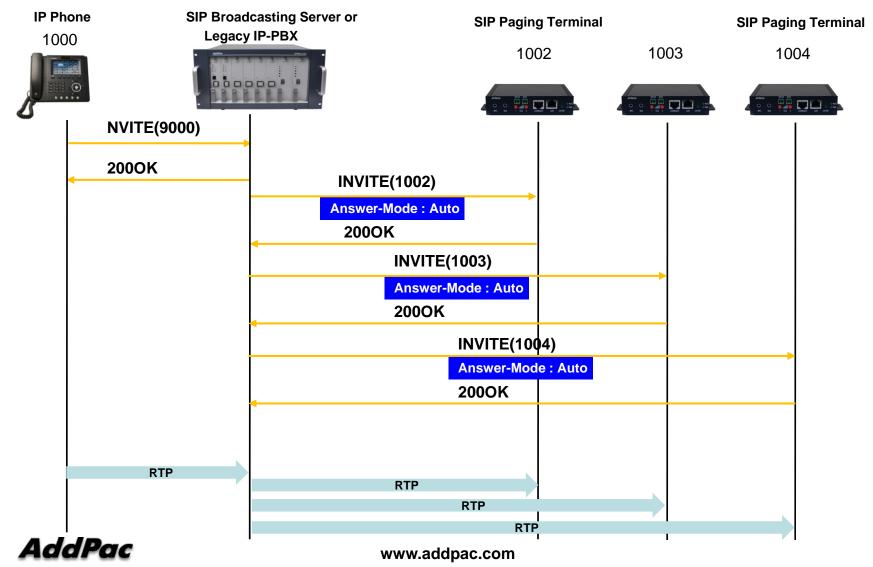
### **SIP Broadcasting Network Diagram**

#### **AP601 SIP Paging Terminal**

SIP Broadcasting Server or Legacy IP-PBX (Embedded or Commercial Server)



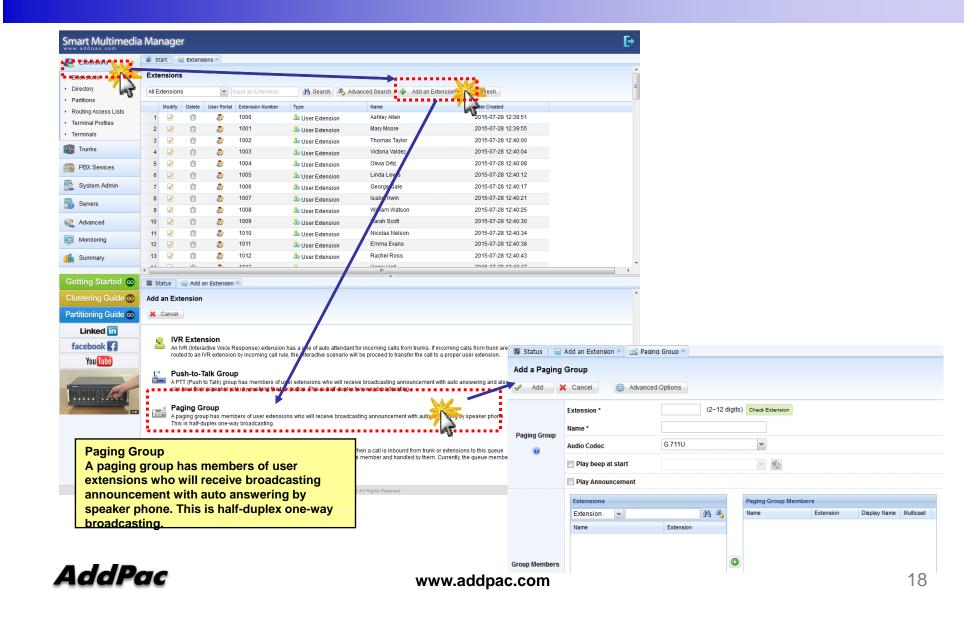
### Paging Group Signaling Flow







### Extension – Paging Group



## Paging Group Configuration

#### E+ Smart Multimedia Manager Extensions 📓 Status 🛛 📾 Add an Extension 🛎 📑 Paging Group 🦉 Paging Extension Extensions This is paging extension number to make the Directory Add a Paging Group Partitions paging by dialing digits. Add 🔀 Cancel Advanced Options Routing Access Lists Terminal Profiles 9000 (2~12 digits) Check Extension Extension number is valid. Extension <sup>1</sup> Description Terminals Name \* A paging group has members Paging Group Trunks Play Announcement of user extensions who will G.711U ~ Audio Codec receive broadcasting announcement with auto Announcement ¥ 🌖 PBX Services Closing Notification Play beep at start 👻 🌖 answering by speaker phone. Beep Sound 3 This is half-duplex one-way \$ Repeat Count 1 📃 System Admin broadcasting. Only authorized Play Announcement by dialing the paging extension. ÷ Retry Count 2 Servers Paging Group Members Extensions Extension AA 🐴 Name Extension Display Name Multicast $\mathbf{v}$ 🔶 sec Related Links Retry Interval 3 Advanced 1002 Off a Thomas Taylor Name Extension User Extension 1003 Off Close on Caller Drop Call V 1000 🚵 Ashley Allen 🏝 Victoria Valdez Monitoring Announcement and Tones 1001 1004 Off 👛 Mary Moore 🔓 Olivia Ortiz Partitions **Play Announcement** O Summary Group Members 1005 Off 1007 å Isabel Irwin 🚨 Linda Lewis If enabled, group members will hear 🔕 👌 George Gale 1006 Off 1008 0 å William Watson announcement at broadcasting. The Getting Started 💿 🏝 Sarah Scott 1009 announcement can be selected among **Group Members** 🔓 Nicolas Nelson 1010 Clustering Guide GO announcement files and can be uploaded 1011 These members can receive broadcasting a Emma Evans Partitioning Guide co at Announcements and Tones menu. A Dechal Deca 1012 announcement. Specify Phone Number: Linked in facebook Extensions Authorized Members You Tube Search: Extension 🗸 AA 80. Name Extension Display Nam Multicast ashley Allen 1000 Of Name Extension Authorization O Off 1001 1002 any Moore Members a Thomas Taylor 0 1003 A Victoria Valdez 1004 Clivia Ortiz Authorization Members 1005 🔓 Linda Lewis Only these authorized member can start this 1006 🚨 George Gale paging by dialing the paging extension digits. Advanced Options Copyright @ AddPac 1999-2015 All Rights Reserv Aaarac www.addpac.com

### **Ordering Information**

#### • AP601 SIP Paging Terminal Hardware

- AP601 Main Body
- RISC Microprocessor with High-end Programmable DSP Architecture
- Including Network Cable Set & Power Supply, etc.
- Built-in APOS Internetworking Software for AP601
- 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

