AP602

SIP VoIP Paging Terminal

High Performance SIP based Paging Terminal

AddPac

AddPac Technology

Sales and Marketing

www.addpac.com

Contents

Product Overview

AP602 SIP VoIP Paging Terminal

- 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) MIC Port 3.5mm Connector, One(1) SPK Port : 3.5mm Connector
- Volume Control Button Support (Up, Down)
- Option (AP602 : Model A) : AMP. Built-in, Terminal SPK Port
- Two(2) 10/100Mbps Fast Ethernet LAN Port
- High-Quality Audio/Voice Service
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability
- External Power Supply

Product Highlights

AP602 SIP VoIP Paging Terminal

SIP based Broadcasting Terminal

Unicast & Multicast Broadcasting Service Scheme

SPMS (SIP Paging Management Software) Support

Excellent Voice Quality for Broadcasting

High Performance RISC CPU & Programmable DSP

SPK/MIC Audio Interface Support

Volume Control Button Support

External Power Supply

Optional Built-in AMP. (AP602 : Model A)

IP based Network Protocol & Audio/Voice Traffic QoS

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

RS232C Console Interface Support for Command Line Interface

Hardware Specification

AP602 SIP VoIP Paging Terminal

RISC CPU

High-end DSP

- RISC Microprocessor Computing Power
- High-end Programmable DSP Hardware Architecture
- High Quality Audio Encoding/Decoding Service
- Two(2) 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 : 40Watt Digital AMP. Built-in (AP602 : Model A)
- Option : I/O Interface (Alarm Input 1Port, Relay Output 1Port, I2C Interface)

Hardware Specification

AP602 SIP VoIP Paging Terminal

RISC
CPU

High-end
DSP

Front Side
(AMP. Built-In Model : AP602 : Model A)

AMP. Speaker Out

24V DC Power Input for Internal AMP.

ON-AIR LED

Speaker Out

MIC
Input

RS232C
Console

Fast Ethernet (LAN0)

Speaker Volume Control Button (Up, Down)

Hardware Specification

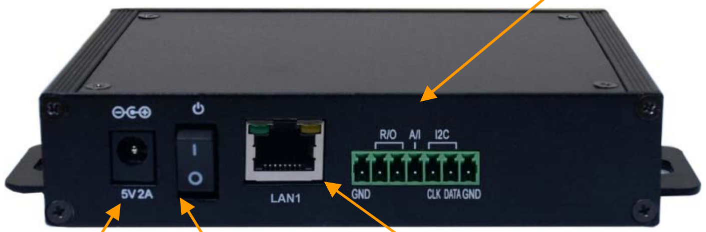
AP602 SIP VoIP Paging Terminal

RISC CPU

High-end DSP

Back Side

Alarm 1Port, Relay Out 1Port, I2C Interface



External Power Supply Adaptor

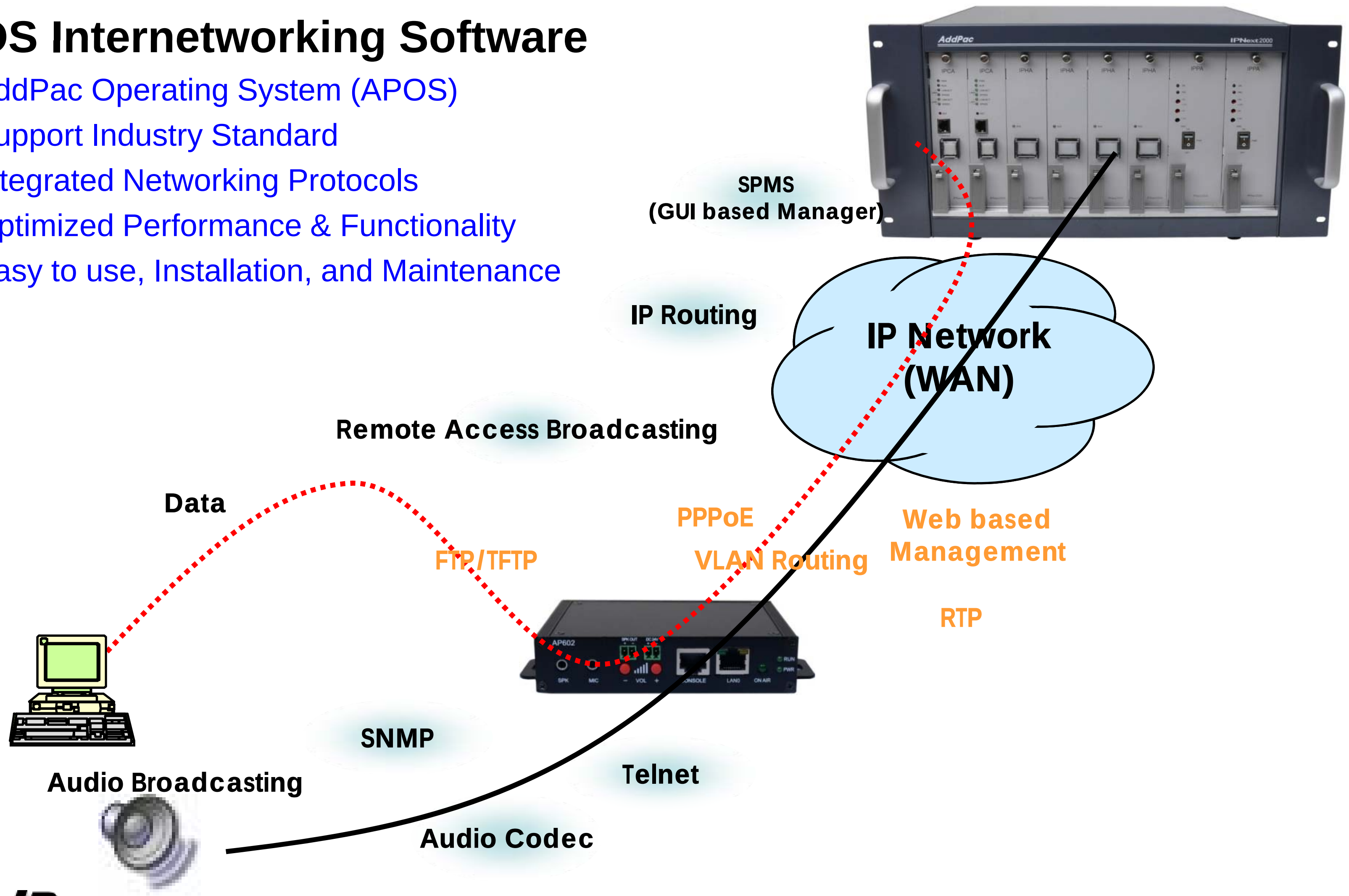
Power Switch

Fast Ethernet (LAN1)

APOSTM Service Features

AP602 SIP VoIP Paging Terminal

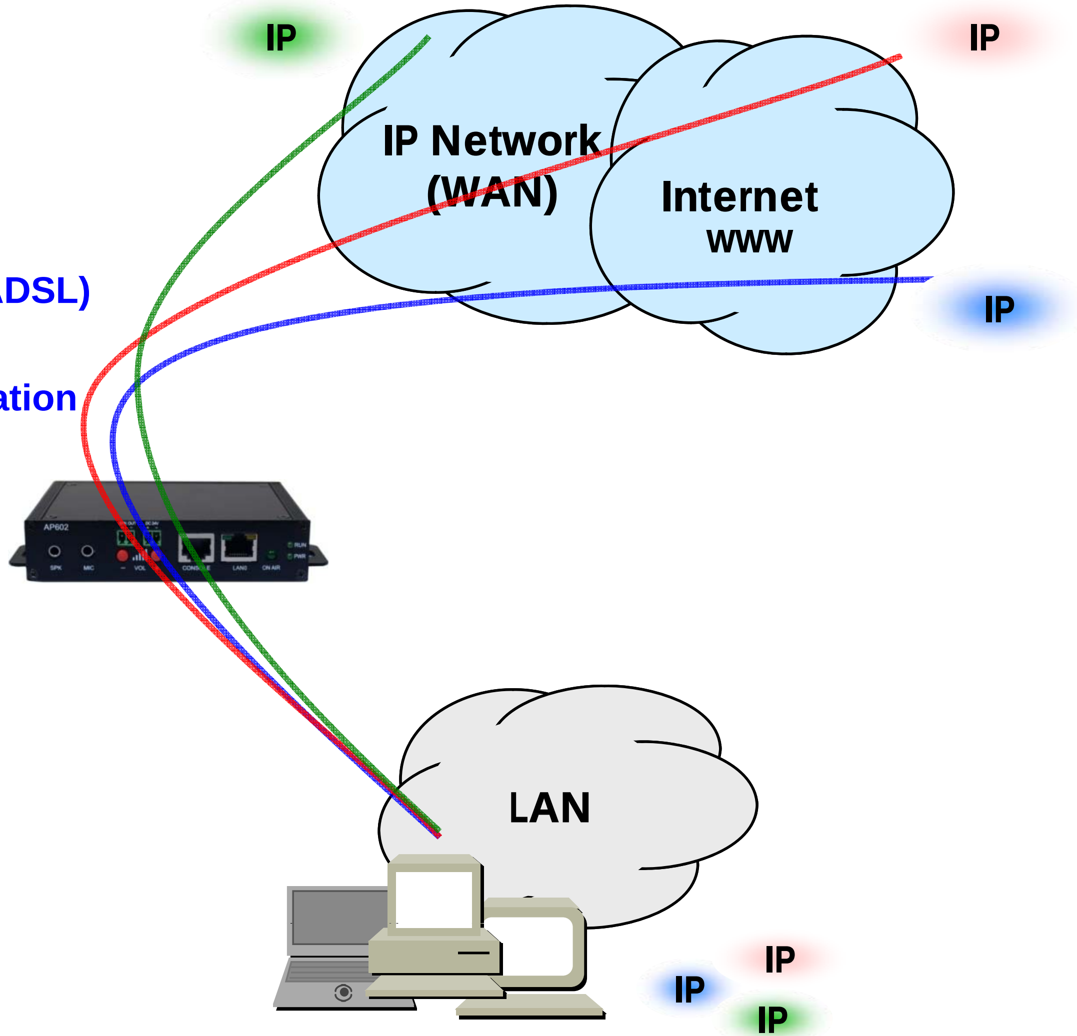
- **APOS Internetworking Software**
  - AddPac Operating System (APOS)
  - Support Industry Standard
  - Integrated Networking Protocols
  - Optimized Performance & Functionality
  - Easy to use, Installation, and Maintenance



APOS™ Service Features

AP602 SIP VoIP 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**



APOS^{TM} Service Features

AP602 SIP VoIP 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

APOS™ Service Features

AP602 SIP VoIP 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

AP602 SIP VoIP Paging Terminal

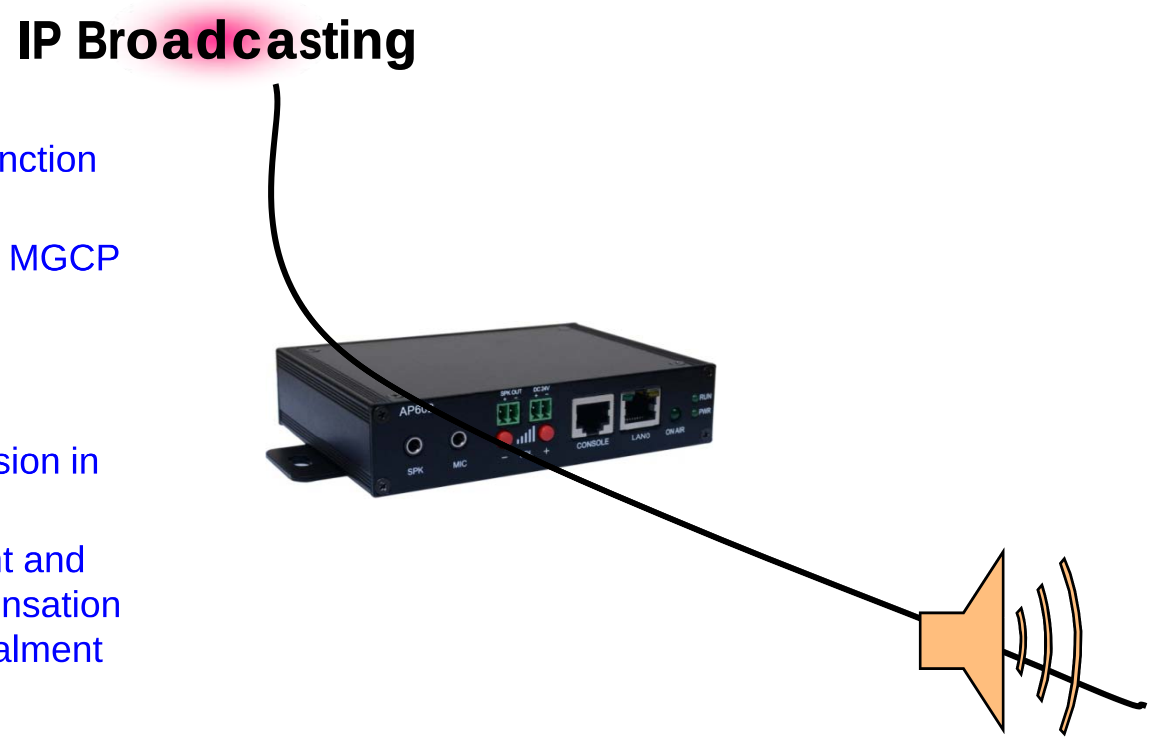
- **SIP Protocol Service**
  - Gateway-based / Endpoint-based registration support
  - Secondary proxy-server assignment function
  - SIP signaling port change function
  - SIP proxy server assignment according to the domain name
  - T.38 real-time fax relay support
  - DTMF relay support with RFC2833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

VoIP Service Features

AP602 SIP VoIP Paging Terminal

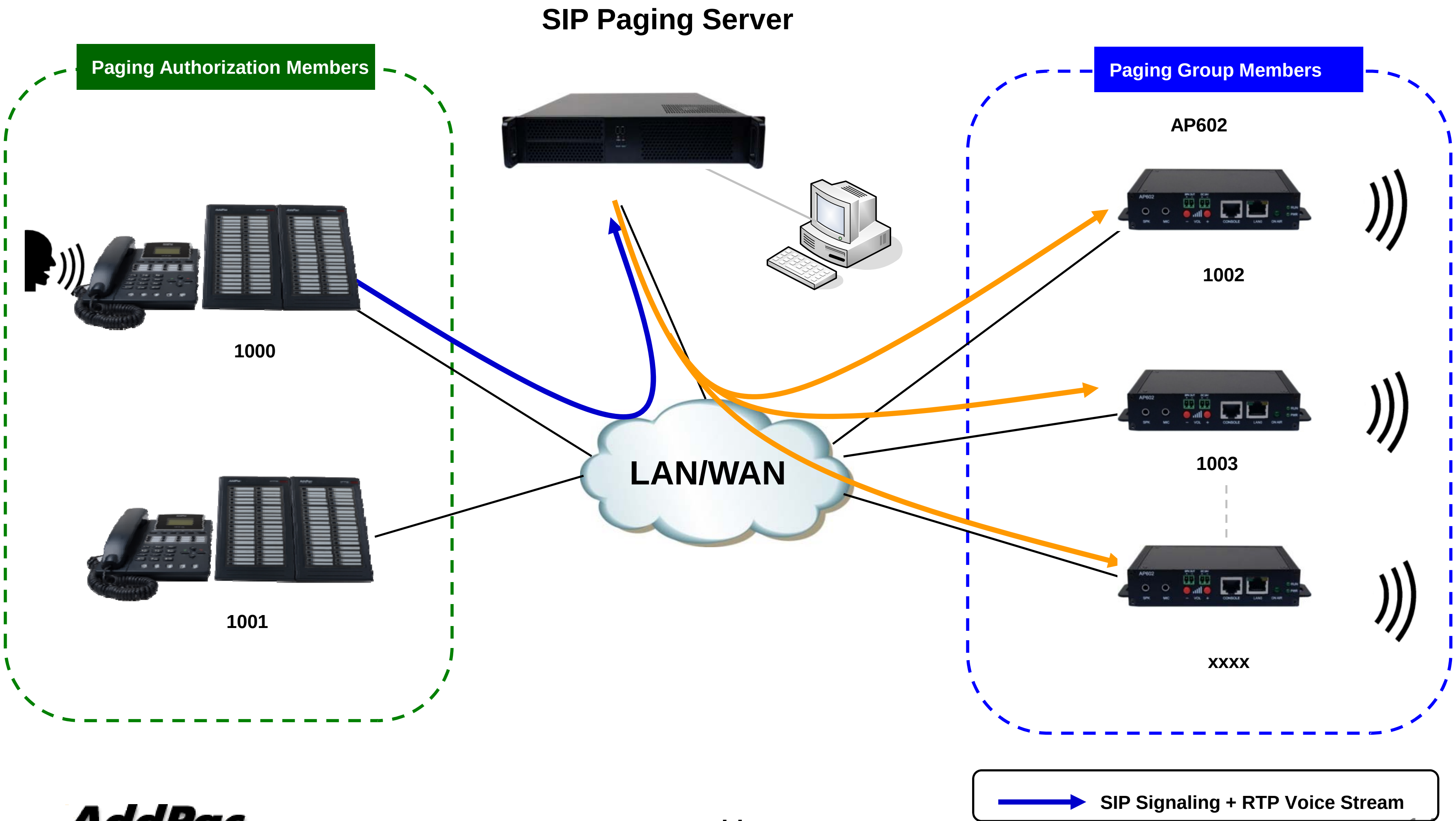
- **Voice Codec**
  - G.711 A-Law, G.711 U-Law
  - G.726 r16, G.726 r32
  - G.729A
  - G.723.1 r63, G.723.1 r53
  - VAD (Voice Activity Detection) function support
  - DTMF relay support (H.323, SIP, MGCP common) based on RFC2833

- **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



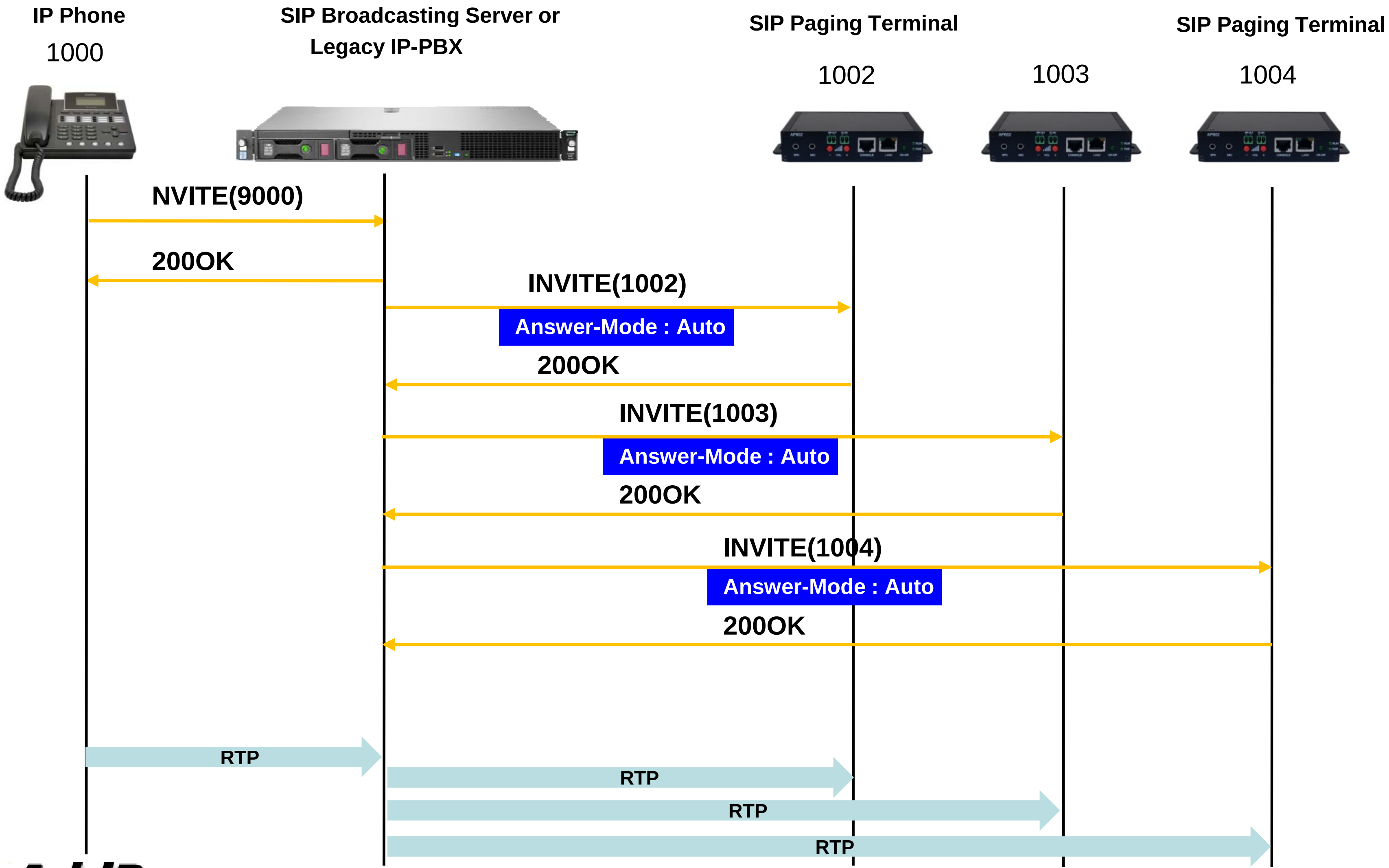
SIP Broadcasting Network Diagram

AP602 SIP VoIP Paging Terminal



Paging Group Signaling Flow

AP602 SIP VoIP Paging Terminal



Ordering Information

- **AP602 SIP VoIP Paging Terminal Hardware**
  - AP602 Main Body
  - Two(2) Fast Ethernet Port
  - SPK, MIC Port (3.5mm x 2)
  - SPK AMP. Out (Option : Model A : 40Watt)
  - Volume Up Down Button
  - I/O Interface : Alarm InPut 1 Port, Relay Output 1Port, I2C Interface
  - Voice Codec : G.722(16KHz), G.711,G.726,G.729A,G,723.1, etc
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - Including Network Cable Set & Power Supply, etc.
- **Built-in APOS Internetworking Software for AP602**
- **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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