IPNext250 NGN Hybrid IP-PBX System

High-performance Next Generation Hybrid IP-PBX System

Preliminary Product Overview







AddPac Technology

Sales and Marketing

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Contents

- Product Overview
- Hardware Specification
- Software Service
- IP-PBX Service and Features
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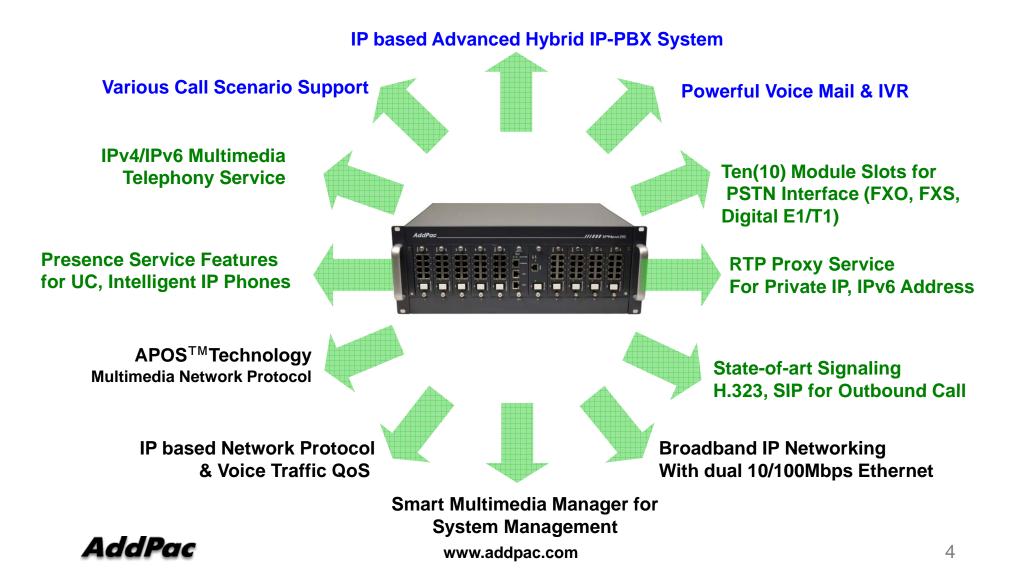


Product Overview

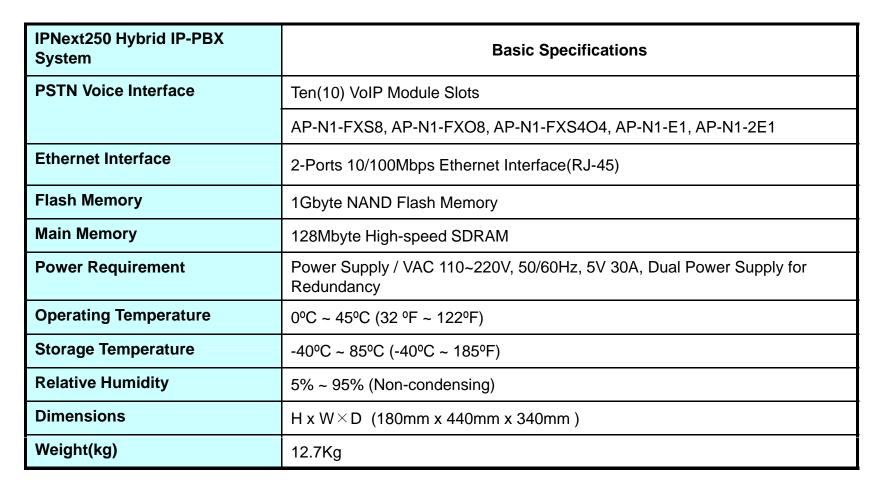
- IP based Advanced Hybrid IP-PBX Solution
- IPv4/IPv6 Multimedia Telephony Solution for Small & Medium Office
- PSTN Interface (FXO, FXS, Digital E1/T1) Support
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- IVR Service with Scenario Editor
- Voice Mailing Service
- Presence Service for High-End IP Key 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 Terminal Support



Product Highlights



IPNext250 Hybrid IP-PBX System





RISC

CPU

High-end

DSP

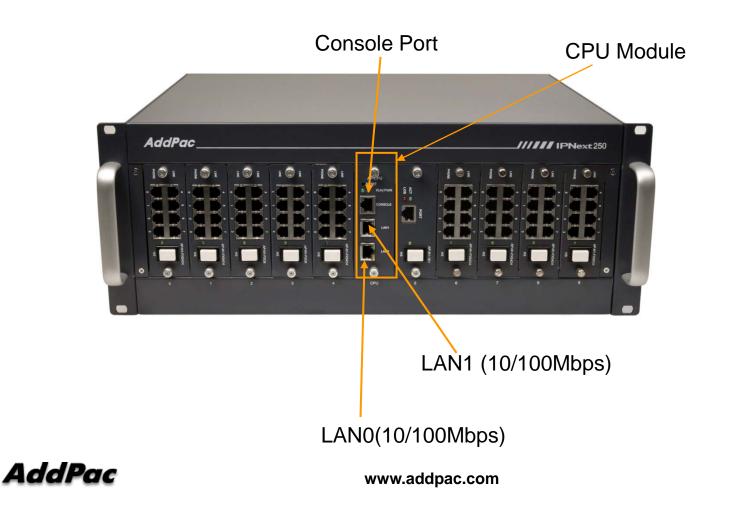
RISC CPU

- RISC Microprocessor Computing Power
- Main Chassis
 - Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)
 - Ten(10) VoIP Module Slots for FXS, FXO, Digital E1/T1, etc
 - Hot-Swap VoIP Module
 - Module Type Dual Power Supply for Redundancy

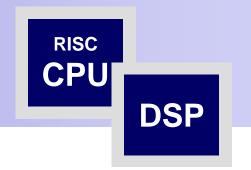
IPNext250 Hybrid IP-PBX System

RISC CPU DSP

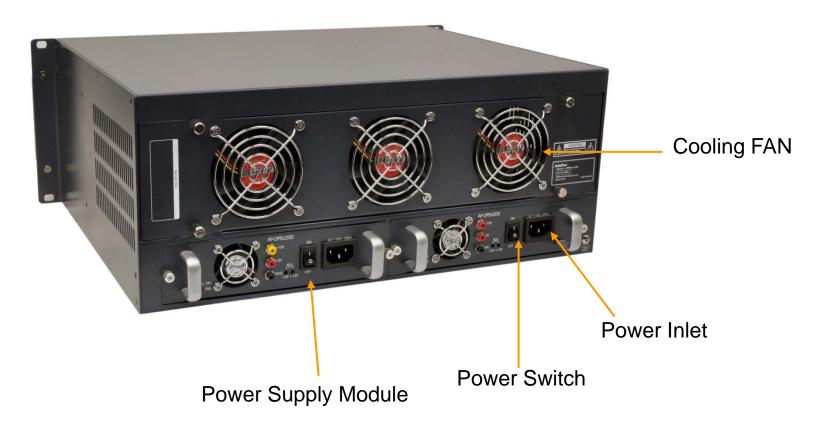




IPNext250 Hybrid IP-PBX System



IPNext 250 Back Side



IPNext250 Hybrid IP-PBX System

VoIP Modules

AP-N1-E1 1-Port Digital E1/T1 Module

AP-N1-2E1 2-Port Digital E1/T1 Module





RISC

CPU

DSP

IPNext250 Hybrid IP-PBX System

AP-N1-FXS8 LINE HS 5 4 6 AP-N1-FXO8 LINE 12

AP-N1-FXS8 (8-Port FXS Module)

RISC

CPU

High-end

DSP

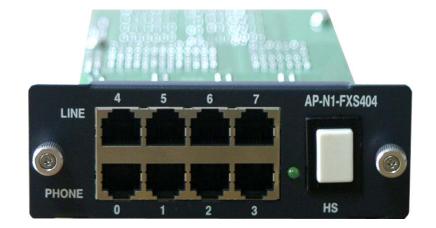
AP-N1-FXO8 (8-Port FXO Module)



HS

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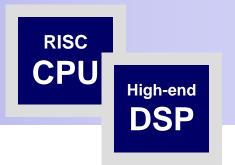
AP-N1-FXS4O4 (4-Port FXS-4-Port FXO Module)



AP-N1-E1 (Digital E1/T1 Module)



IPNext250 Hybrid IP-PBX System





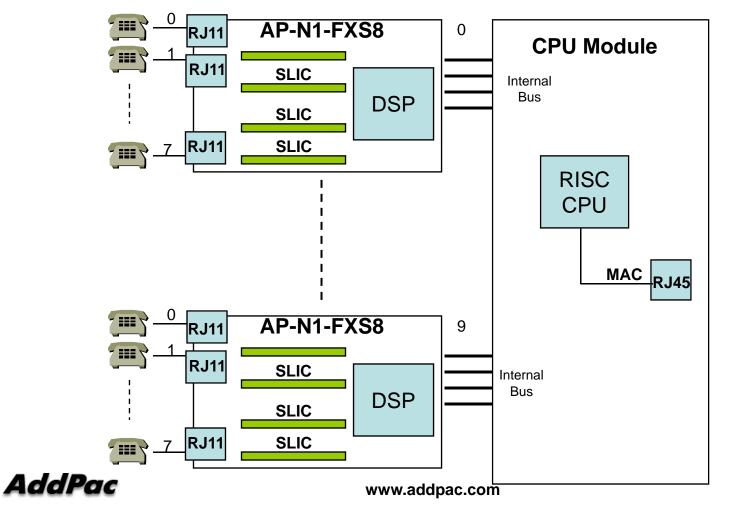
AP-N1-2E1 (Digital E1/T1 Module)

IPNext250 Hybrid IP-PBX System



IPNext250 VoIP Module Combination Diagram

80-Port(8x10Module) FXS Gateway Service Diagram

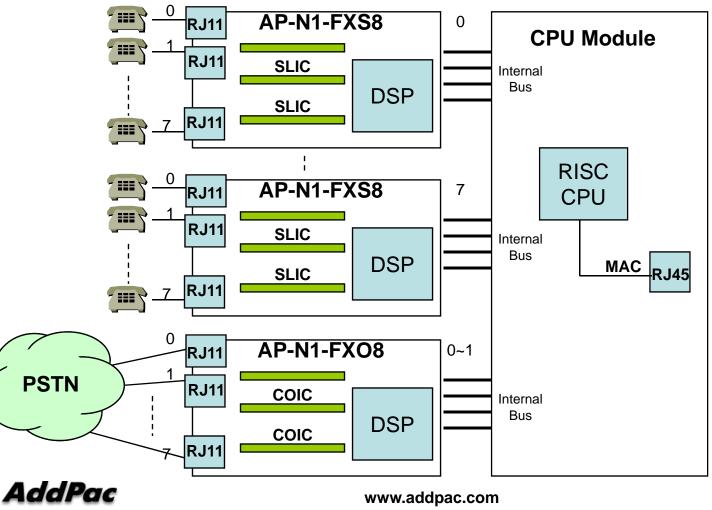


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IPNext250 VoIP Module Combination Diagram

64-Port(8x8Module) FXS + 16 Port (8x2 Module) FXO Gateway Service Diagram

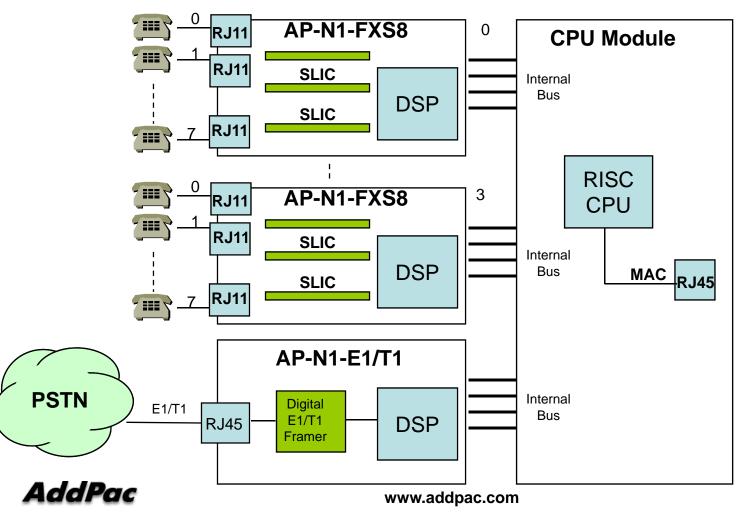


IPNext250 Hybrid IP-PBX System



IPNext250 VoIP Module Combination Diagram

32-Port(8x4Module) FXS + 1 Port Digital E1 Gateway Service Diagram



Software Service

IPNext250 Hybrid IP-PBX System

Built-in AddPac APOS Internetworking Software

- Scalability, Functionality, and Stability Features
- Advanced Call Manager Features
- Media Gateway Features
- QoS Control Features
- Programmable Video, Audio, and Voice Services Strart Messenger
 - Audio, and Voice Codec
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - Smart Messenger for UC
 - Smart Multimedia Manager



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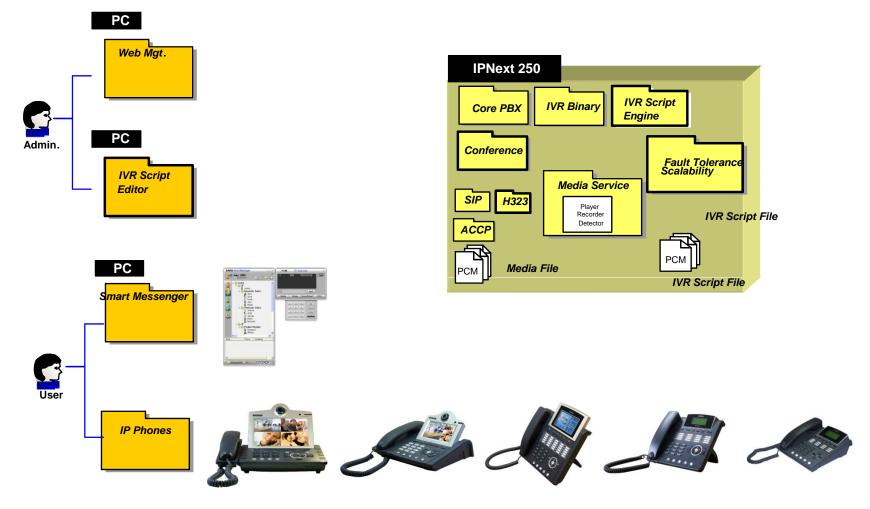
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APOS



IP-PBX Software Components

IPNext250 Hybrid IP-PBX System



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IPNext250 Hybrid IP-PBX System

Signaling Server

- SIP Application Server, Proxy, Registrar and Location Server (RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
 - IP UA Client Role for Registering to ITSP SIP Server
 - H.323 Gatekeeper Client Role for Registering to ITSP H.323 Gatekeeper Server

• IVR & Auto Attendant

- Default Auto Attendant Support
- Interactive Voice Response (IVR)
 - Provides with GUI-based Smart IVR Scenario Editor
 - Upload/Download Scenario by Smart IVR Scenario Editor
 - Supports Multiple Concurrent Scenarios
 - Supports Recordable IVR Prompts

Voice Mail

- Support Voice Mail with IVR
- Access from Remote Site via Trunk Support
- Voice Mail Notification Support



IPNext250 Hybrid IP-PBX System

• Number & Call Routing

- Trunk Hunting by Preference or Sequential
- Call Hunting by Preference, Simultaneous, Random
- Call Hunting by Chained Hunting Group
- Partition for Address Grading
- Call Class for Call Access Control
- Number Translation Rule for Inbound/Outbound Call
- Centrex with Prefix Support
- Multiple Shared Devices with One Number
- Multiple Numbers on One Device
- Individual Call Park within Park Number Pool
- Group Call Park within a Group or Other Group
- Call Pickup of Ringing Call of Same Group or Other Group
- Call Pickup of Parked Call
- Call Transfer Blind, Consult
- Call Forwarding Unconditional, Busy, No Answer, Voice Mail
- Call Waiting
- Call Swaping
- Call Hold



IPNext250 Hybrid IP-PBX System

• IP-PBX Advanced Features with AddPac IP Phones

- Multiple Call Handling with Call Status and Calling Line Number and Name
- Plug and Play with Auto Discovery Function
- Softkey Map Download and Control
- Time and Date Setting
- Voice Mail List View
- Parked Call List View
- Call Forward Setting
- Recent Call List View
- Calling Number and Name Identification
- Individual Call Park within Park Number Pool by Softkey
- Group Call Park within a Group or Other Group by Softkey
- Call Pickup of Ringing Call of Same Group or Other Group by Softkey
- Call Pickup of Parked Call by Softkey
- Call Transfer Blind, Consult by Softkey
- Call Waiting Indication
- Call Swaping by Softkey
- Call Hold by SoftKey
- Conference Control



IPNext250 Hybrid IP-PBX System

User & Device Management

- LDAP (Light weight Directory Access Protocol) Support
 - Supports Hierarchical Organization
- Auto Discovery of IP Phones & Video Phones
- Monitoring Status of Phones

Miscellaneous*

- Distinctive Ring by Calling User
- Auto Config & Upgrade
- Personal Directory
- Downloadable Ring
- Do not Disturb

IPNext250 Hybrid IP-PBX System

• Conference

- G.711 (4-party Conference, 2 session) : basic
- Ad-hoc Conference
- Dial-Out Conference
- Meet-me Conference
- Multiple External MCU support(Video, Audio, etc) : AddPac AP-MC1000, etc
- Conference Chair and Participants Management

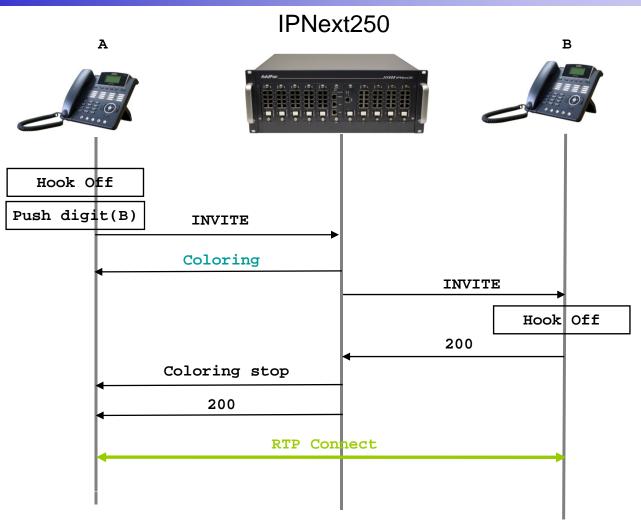
Music & Announcement

- Music on Hold
- Replaceable Announcements
- Dialing Music / Tone Service



SIP based Basic Call Scenario

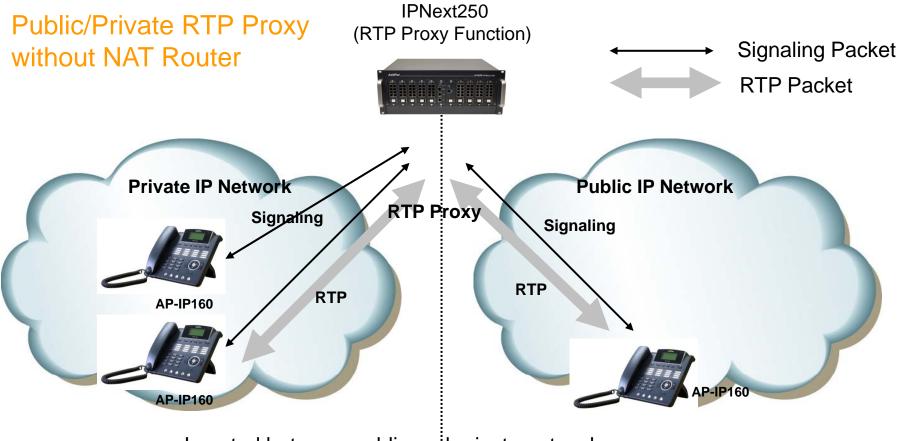
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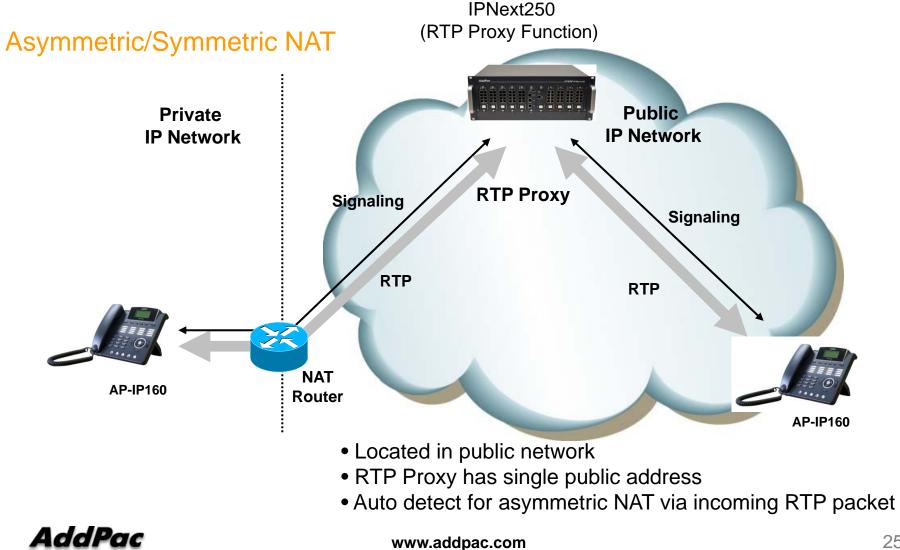
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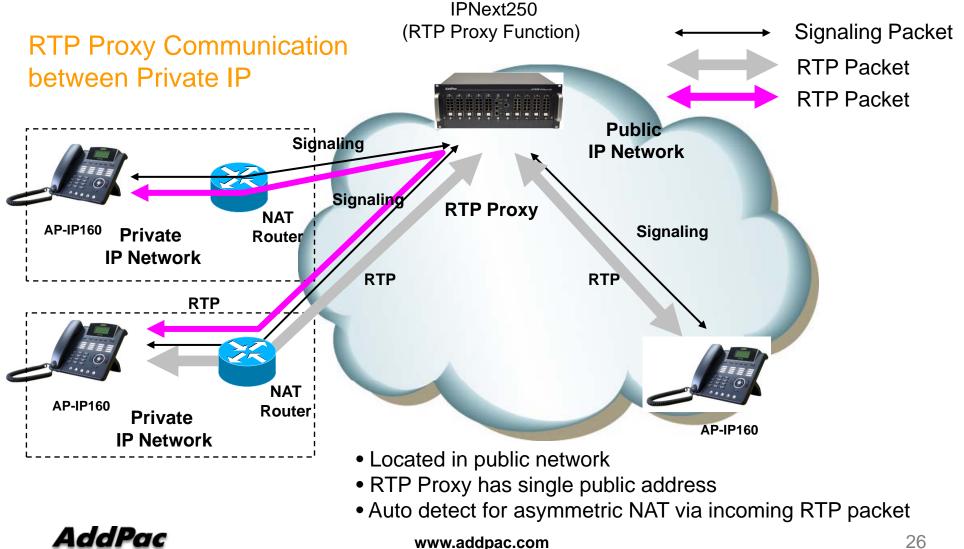


- Located between public and private network
- IPNext250(Call manager + RTP proxy) has public and private address
- IPNext250 determine that the call is internal or external



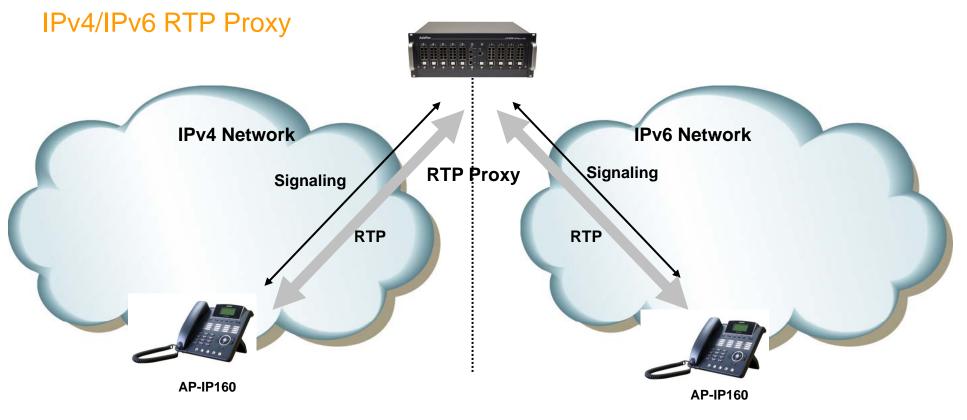
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IPNext250 (RTP Proxy Function)

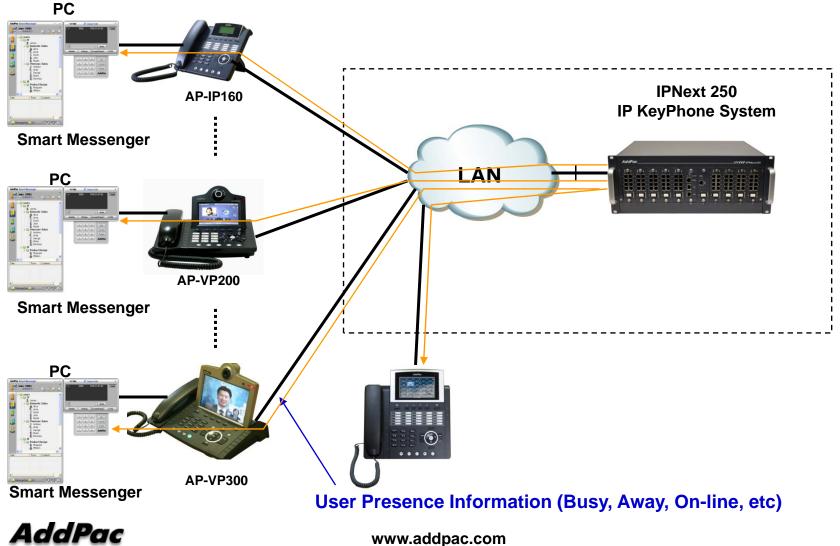


• IPNext250(Call manager + RTP proxy) has IPv4 and IPv6 address



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User Presence Service for UC



- Basic Network Protocols
- ARP, IP, IPv6, TCP, UDP, ICMP, ICMPv6, SCTP, IGMP, MLD
- Routing Protocol
 - IPv4 : Static
 - IPv6 : Static
- Service Protocol
 - FTP, Telnet, TFTP, DHCP Server/Relay, SNMP Server
 - CDP (Cisco Discovery Protocol)
 - DNS Resolver, DDNS(nsupdate)
 - Bridge
 - Syslog
 - IP/IPv6 policy control (QoS)
 - VPDN (Virtual Provate Dial-up Network : L2TP Server)



- IPv4/IPv6 Interworking
 - NAT/PAT for IPv4
 - IP connect (formerly ip-share) and device cascade for IPv4
 - IP/IP, IP/GRE tunneling
 - NAT-PT
 - 6to4, Autoconfig tunneling
- IPv4 Address Configuration
 - Fixed (Static)
 - DHCP
 - PPPoE
- IPv6 Address Configuration
 - Fixed (Static)
 - EUI-64
 - Autoconfig (Neighbor Advertisement and Solicitation)



- Miscellaneous
 - Cisco Style CLI
 - Standard & Extended IPv4/IPv6 Access List
 - Multi-level User Account Management
 - IP accounting
 - fsh (Embedded file system shell)
 - STUN Client

IPNext250 Hybrid IP-PBX System

• SNMP MIBs

- MIB-II
- RMON MIBs (Statistsics, History, Alarm, Hosts Group)
- RFC2465 Management Information Base for IP Version 6: Textual Conventions and General Group
- RFC2466 Management Information Base for IP Version 6: ICMPv6 Group
- RFC2452 IP Version 6 Management Information Base for the Transmission Control Protocol
- RFC2454 IP Version 6 Management Information Base for the User Datagram Protocol
- AddPac Enterprise MIBs
- etc



IP Multimedia Terminals

IPNext250 Hybrid IP-PBX System

- AP-VP500 Video Phone •
- AP-VP350 MCU Video Phone •
- AP-VP300 Video Phone •
- AP-VP280 Video Phone •
- AP-VP250 Video Phone ٠
- AP-VP150 Video Phone ٠
- AP-VP120 Video Phone ٠
- AP-IP300 Premium IP Phone ٠
- AP-IP160 IP Phone ٠
- AP-IP120 IP Phone •
- AP-IP90 IP Phone •
- AP-WP100 WiFi Phone ٠
- AP-SMP100 Soft Phone •
- AP-PT100 Presence Terminal ٠

AP-WP100

- AP-PT50 Presence Terminal •
- AP-PT20 Presence Terminal •





AP-PT100 Presence Terminal

- User Presence and Touch Screen based Speed Dialing Terminal
- "7 Inch Color TFT LCD with Touch Screen
- Inter-working with IP Terminal, Presence Server, Call Manager
- Multiple Terminal Cascading Feature
- User Presence Group Feature
- Firmware Upgradeable Architecture
- PoE (Power over Ethernet) Function
- Internal Speaker







AP-PT50 Presence Terminal

- Speed Dialing Terminal with User Presence Indication LAMP
- Inter-working with IP Terminal, Presence Server, Call Manager
- Multiple Terminal Cascading Feature
- User Presence Group Feature
- Firmware Upgradeable Architecture
- 60 Speed Dial Key with User Presence LAMP
- Connector for Cascading
- Optional PoE (Power over Ethernet) Interface
- Two(2) 10/100Mbps Fast Ethernet Interface
- External Power Adaptor (5V, 2A)









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Smart Messenger for UC

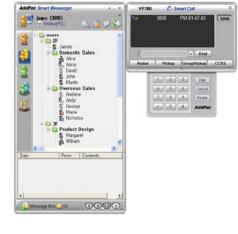
IPNext250 Hybrid IP-PBX System

- Smart Messenger Program
 - PC based MS-Window Program
 - Support Messenger Service
 - Support Various Address Book
 - Support User Presence Information (Busy, Away, On-line, etc)
 - Support User Search Feature
 - Interoperation with Address Book and Smart Phone

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- Support Smart Phone Control and Setup
 - Call Control and Forward Setup
- Support Unified Message Box
 - Voice Mail Box
 - Short Message Box

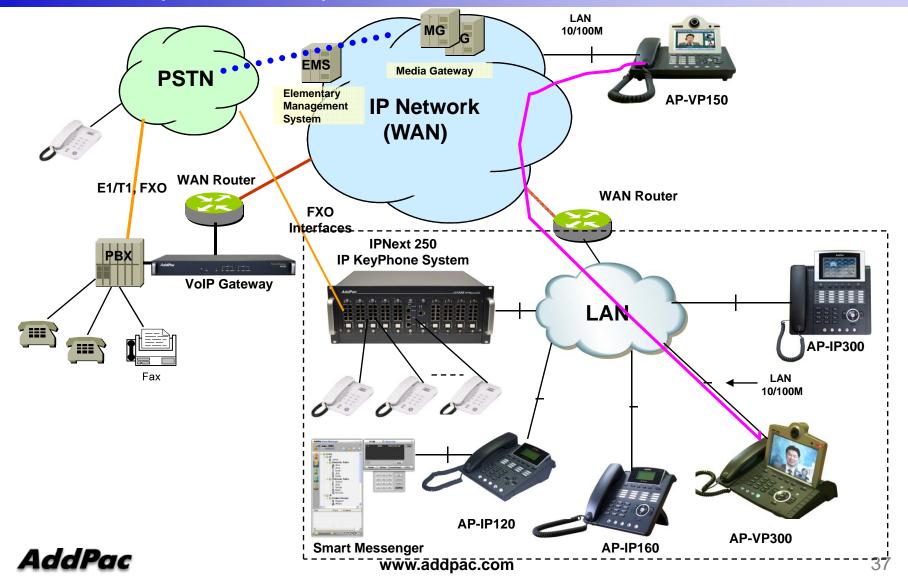




Smart Messenger



Standard IP KeyPhone System Application



Ordering Information

- IPNext250 Hybrid IP-PBX System Main Body
- High-performance RISC CPU
- Ten(10) VoIP Interface Module Slots
- 2-ports 10/100Mbps Fast Ethernet and 1-port RS-232C Console
- Module Type Dual Power Supply for Redundancy
- Including Network Cable Set & Power Supply Cable, etc.
- VoIP Interface Modules (Option)
 : AP-N1-FXS8, AP-N1-FXO8, AP-N1-FXS4O4, AP-N1-E1, AP-N1-2E1, etc
- Built-in APOS Internetworking Software for IPNext250
- 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

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