# IPNext180PTT NGN PTT Hybrid IP-PBX System

High-performance Next Generation PTT Hybrid IP-PBX System

**Preliminary Product Overview** 





AddPac Technology

Sales and Marketing

### Contents

- Product Overview
- Hardware Specification
- Software Service
- IP-PBX Service and Features
- RTP Proxy Service
- User Presence Service
- Network Service and Features
- PTT & RoIP Service
- User Terminals
- Application Area
- Ordering Information



### **Product** Overview

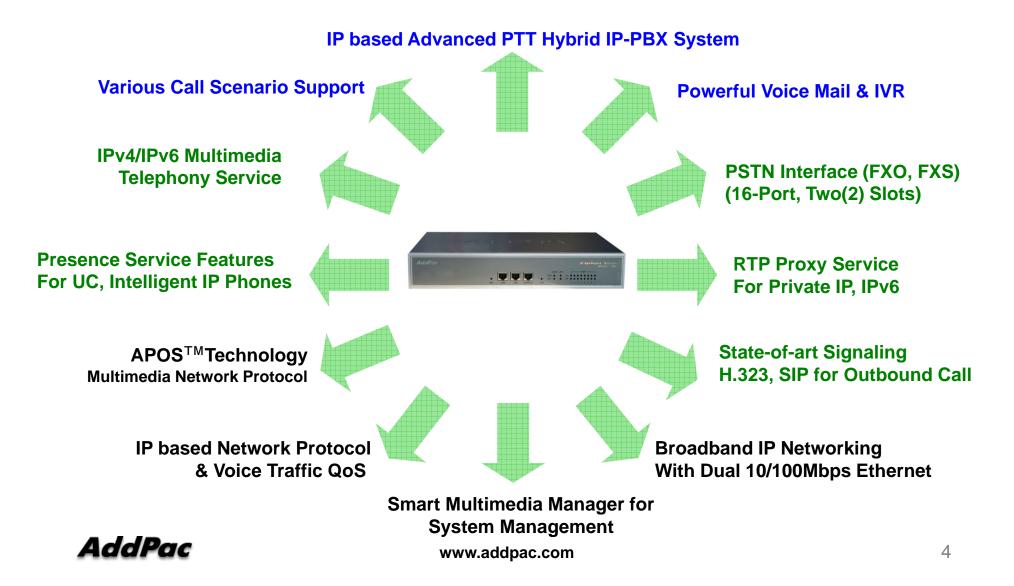
### IPNext180 PTT Hybrid IP-PBX System

- IP based Advanced Hybrid IP-PBX Solution
- High Performance PTT Server Solution
- IPv4/IPv6 Multimedia Telephony Solution for Small & Medium Office
- PSTN Interface (FXO, FXS) 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

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# **Product Highlights**

#### IPNext180 PTT Hybrid IP-PBX System



<sup>64bit</sup>

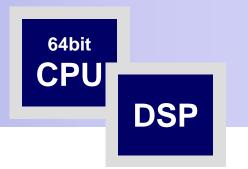
IPNext180 PTT Hybrid IP-PBX System

- RISC Microprocessor Computing Power
- Main Chassis
  - Fixed Network Interface
    - Two(2) 10/100Mbps Fast Ethernet
    - One(1) RS-232C Console (RJ45)
  - Two(2) VoIP Module Slots for FXS, FXO etc





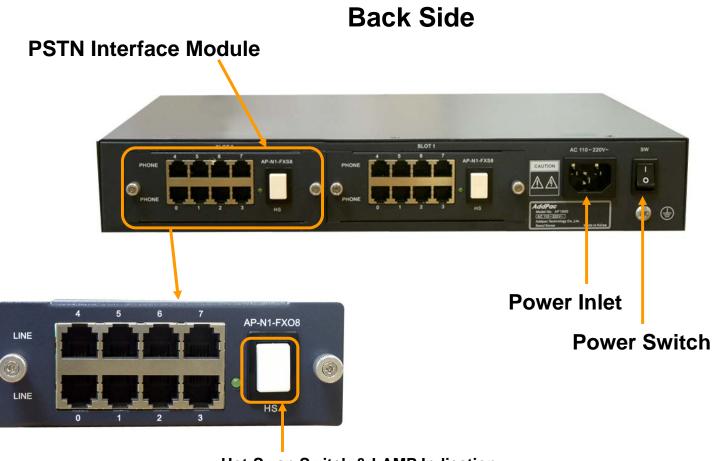
### IPNext180 PTT Hybrid IP-PBX System



### **Front Side**



IPNext180 PTT Hybrid IP-PBX System



Hot-Swap Switch & LAMP Indication



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64bit

CPU

DSP

IPNext180 PTT Hybrid IP-PBX System

• VoIP Interface Module



AP-N1-FXS8		8-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-FXO8	UN THE PARTY OF TH	8-Port FXO Voice Processing Module (8 x RJ11)
AP-N1-FXO4S4		4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-E1T1		1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)

# Software Service

IPNext180 PTT 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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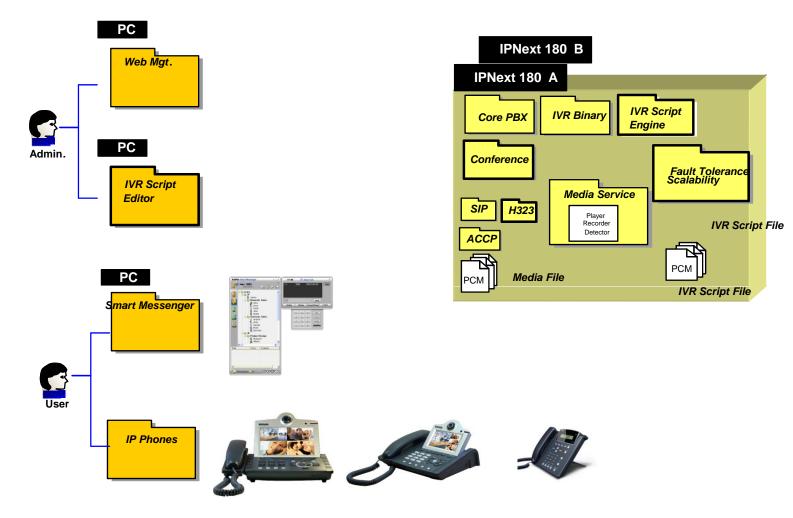
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**APOS** 



# **IP-PBX Software Components**

### IPNext180 PTT Hybrid IP-PBX System



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### IPNext180 PTT 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



### IPNext180 PTT 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



#### IPNext180 PTT 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



#### IPNext180 PTT 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

#### IPNext180 PTT Hybrid IP-PBX System

#### • Conference

- G.711 (4-party Conference, 2 session) : Basic
- G.711/G.729/G.723 (4-party Conference, 2session) Internal MCU Module : Option
- 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

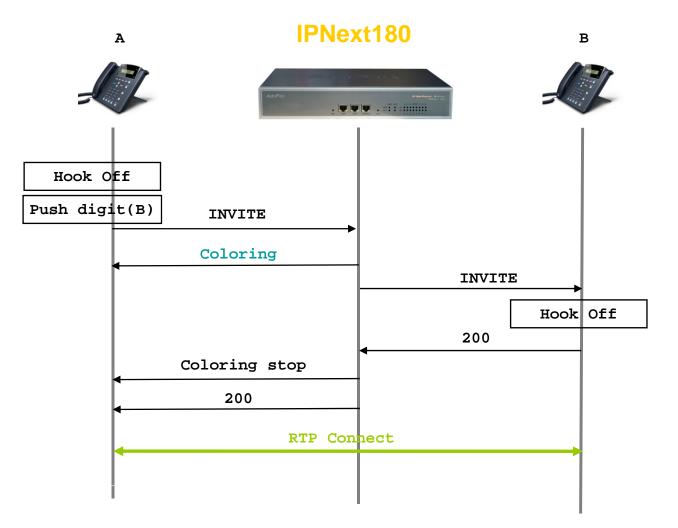
#### Music & Announcement

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



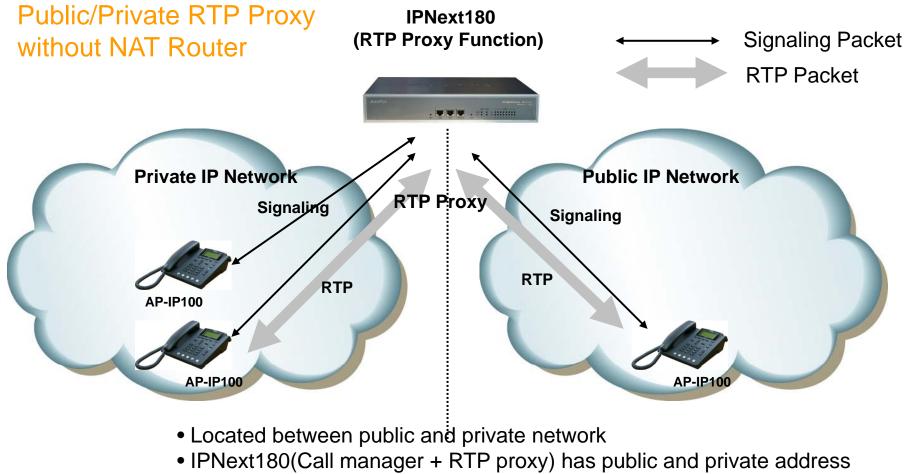
### SIP based Basic Call Scenario

IPNext180 PTT Hybrid IP-PBX System



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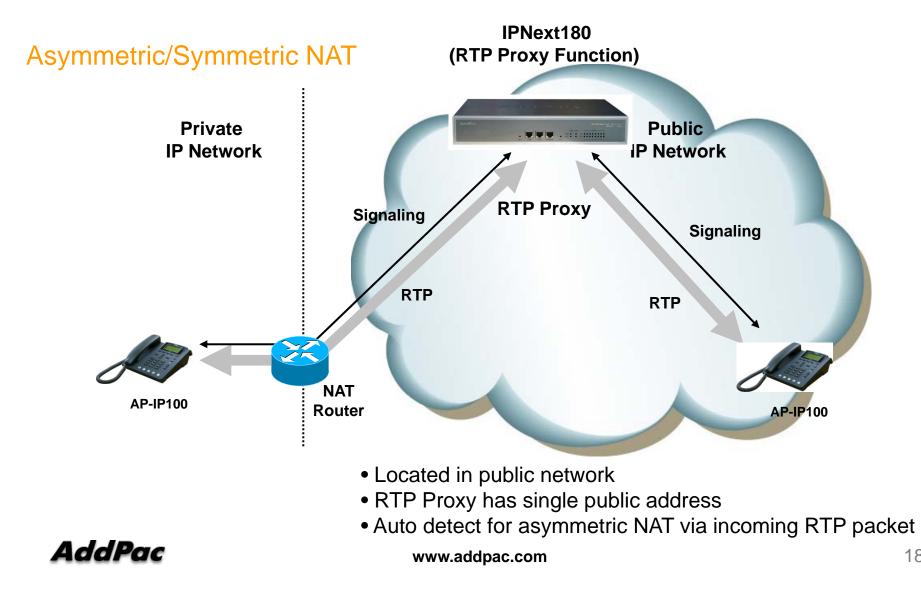
#### IPNext180 PTT Hybrid IP-PBX System



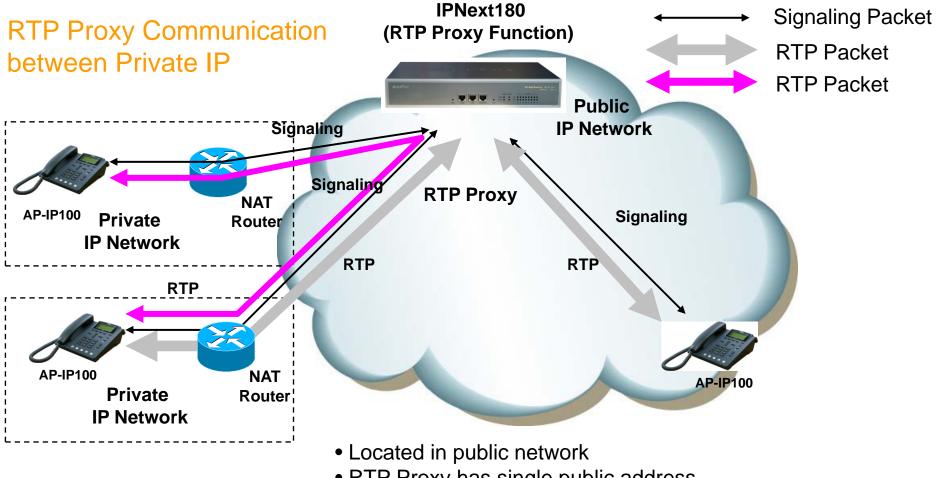
• IPNext180 determine that the call is internal or external



#### IPNext180 PTT Hybrid IP-PBX System



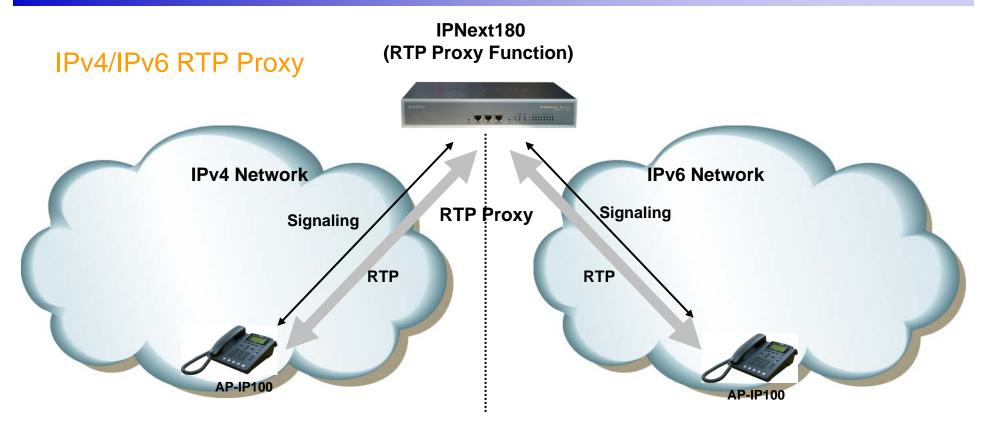
IPNext180 PTT Hybrid IP-PBX System



RTP Proxy has single public address Auto detect for asymmetric NAT via incoming RTP packet

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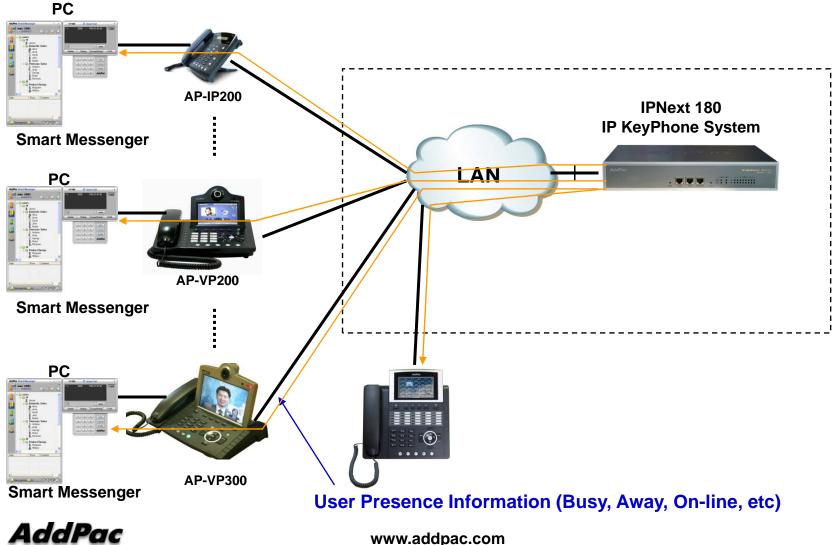
IPNext180 PTT Hybrid IP-PBX System



• IPNext180(Call manager + RTP proxy) has IPv4 and IPv6 address

### **User Presence Service for UC**

#### IPNext180 PTT Hybrid IP-PBX System



IPNext180 PTT Hybrid IP-PBX System

### **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)



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### 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)



IPNext180 PTT Hybrid IP-PBX System

### Miscellaneous

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

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### **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

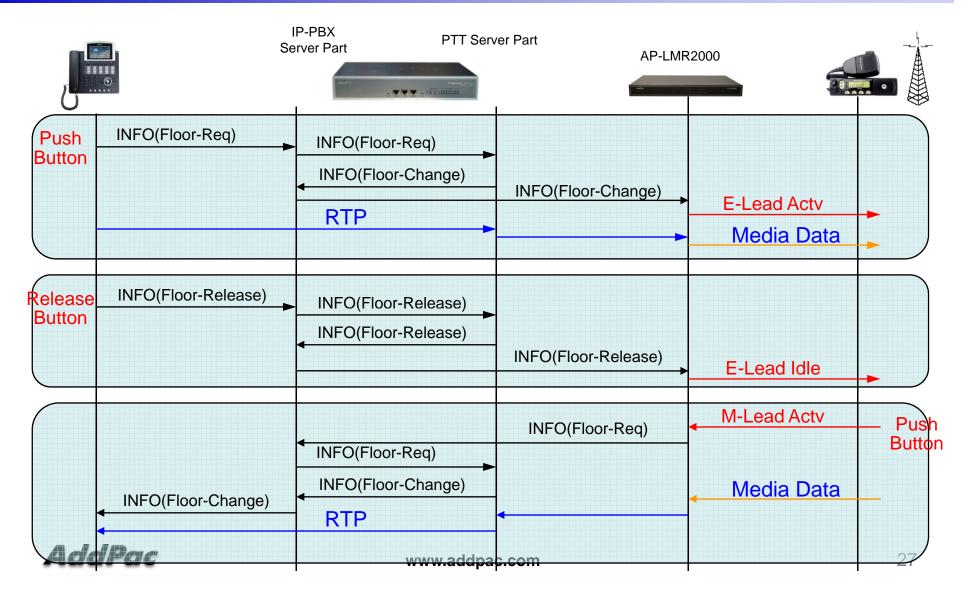
# **PTT** Service

IPNext180 PTT Hybrid IP-PBX System

- IP based PTT Service Support
- Dial-Out based PTT Service Support
  - Multi-Session, Multi-Group
  - PtP (Point-to-Point) Service
- Advanced PTT Server Features
  - 1:1 PTT
  - Group PTT
  - Emergency PTT with Alarm Notification
- Emergency PTT Service Support
- IP-PBX Interworking Service
- IP Terminal Interworking Service (Wi-Fi Phone, IP Phones, Soft Phone, Smart Phone Application)
- PTT Solution with Outstanding Network Service Capability



# RoIP System Message Flow (IP-PBX + PTT Server Integrated Server Model) SIP Message Flow (Floor Control : Push To Talk)



# AddPac IP Phone Comparison Table

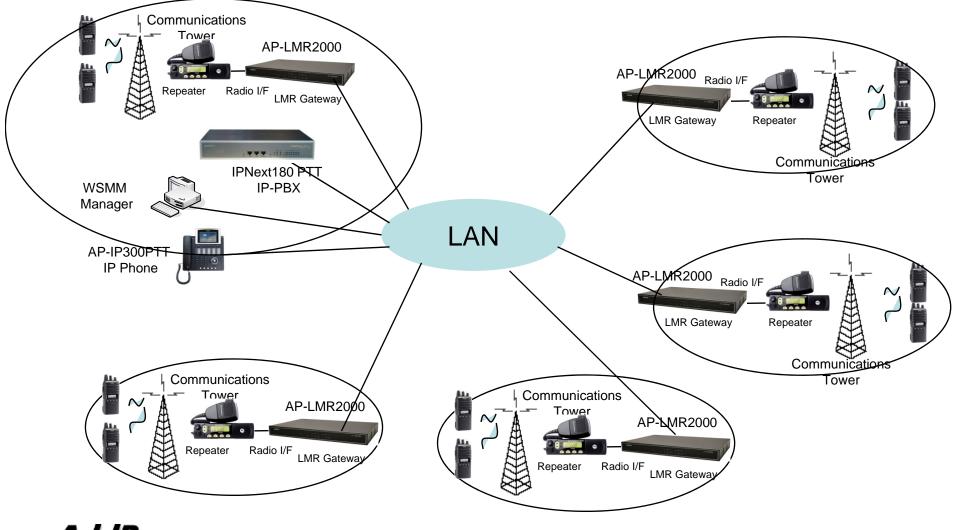
#### IPNext180 PTT Hybrid IP-PBX System





### Standard PTT IP-PBX System Application

#### IPNext180 PTT IP-PBX System



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# **Ordering Information**

### • IPNext180 PTT Hybrid IP-PBX System

- IPNext180 PTT IP-PBX System Main Body
- High-performance RISC CPU
- 2-ports 10/100Mbps Fast Ethernet and 1-port RS-232C Console
- Internal Power Supply
- Including Network Cable Set & Power Supply Cable, etc.
- PSTN Interface Modules (Option)
- Built-in APOS Internetworking Software for IPNext180 PTT
- 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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