IPNext600 System Redundancy IP-PBX

High-performance Next Generation IP-PBX Solution

Preliminary Product Overview

(Without notice, following described technical spec. can be changed)





AddPac Technology

Sales and Marketing

Contents

- Product Overview
- Hardware Specification
- System Redundancy Features
- Software Service
- IP Telephony Service and Features
- RTP Proxy Service
- User Presence Service
- Network Service and Features
- User Terminals
- Application Area
- Ordering Information





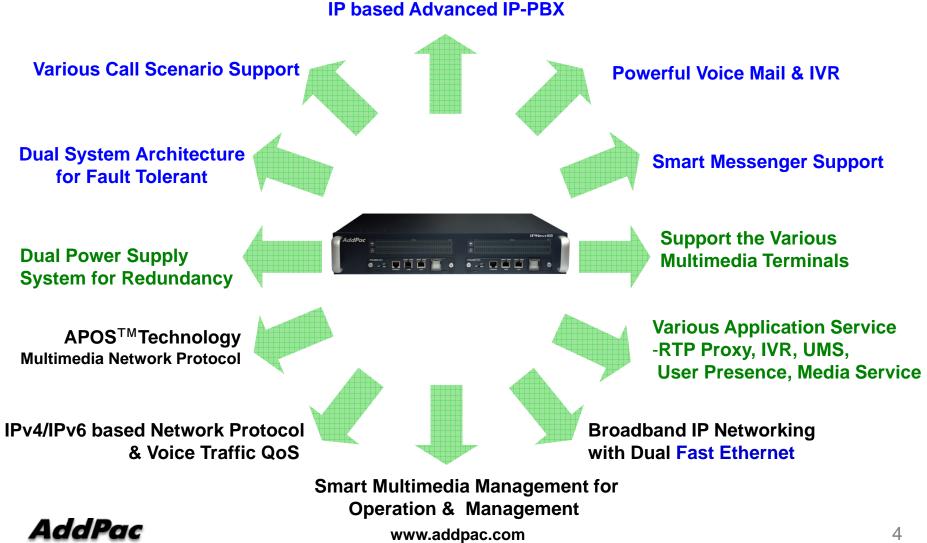
Product Overview

IPNext600 Next Generation IP-PBX System

- SIP Application Server, Proxy, Registrar and Location Server Multiple ITSP Trunk with SIP & H.323 Accounts Support
- Dual System Redundancy Architecture ۲
 - Two(2) Fast Ethernet Interface / System
- High Perfórmance RISC Architecture ۲
- Powerful Network Protocols (PPPoE, DHCP, Static Routing, etc) ۲
- IPv4/IPv6 Dual Stack •
- RTP Proxy Function Embedded for Private IP and IPv6 Address Interworking •
- User Presence Service Features for Smart Multimedia Messenger and Smart • **IP** Phone
- IVR Scenario Editor, Voice Mail, Media Service (Coloring), Conference ۲
- Firmware Upgradeable Architecture •
- Smart Multimedia Manager for IP-PBX Management ۲
- Smart Messenger Service (click to dial) for Unified Communication ۲
- VPMS (VoIP Plug&Play Management System) & Smart NMS for Large Scale • Deployment
- Advanced Voice QoS Mechanism •
- **Dual Redundancy Power Module** ۲

AddPac

Product Highlights



Hardware Specification



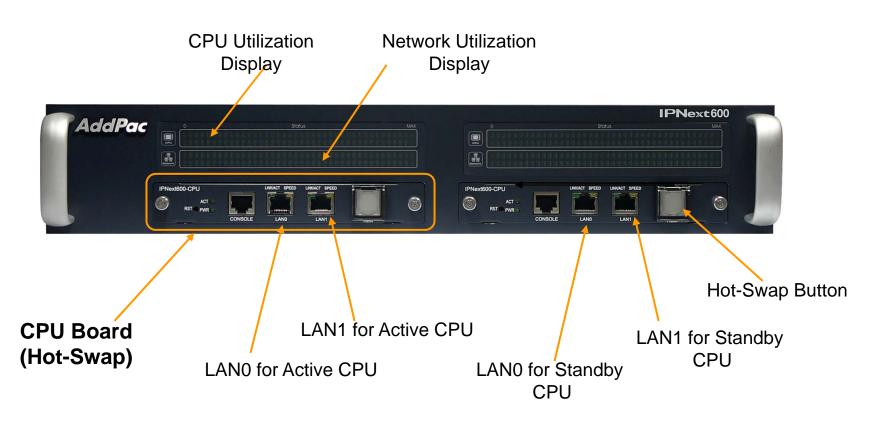
- High-End Microprocessor Computing Power
- Main Chassis
 - Dual Redundancy CPU Boards for System Fault Tolerant
 - Two(2) 10/100Mbps Gigabit Ethernet
 - One(1) RS-232C Console (RJ45)
 - Dual Redundancy Power Supply Module
 - Hot-Swap Features

Hardware Specification

IPNext600 Next Generation IP-PBX System

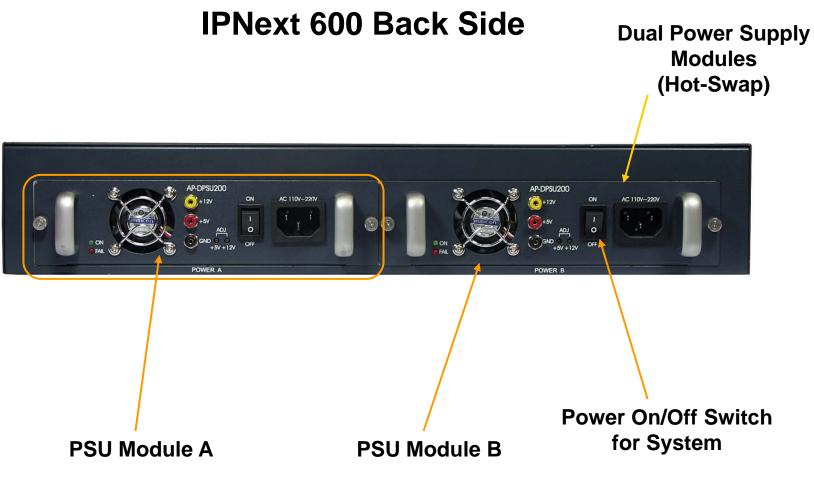
RISC CPU

IPNext 600 Front Side



Hardware Specification

IPNext600 Next Generation IP-PBX System





www.addpac.com

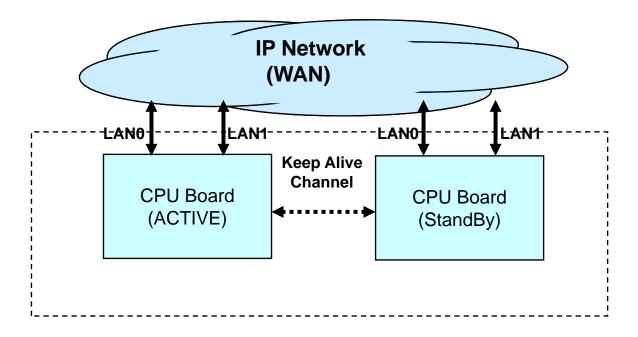
RISC

CPU

System Redundancy Features

IPNext600 Next Generation IP-PBX System

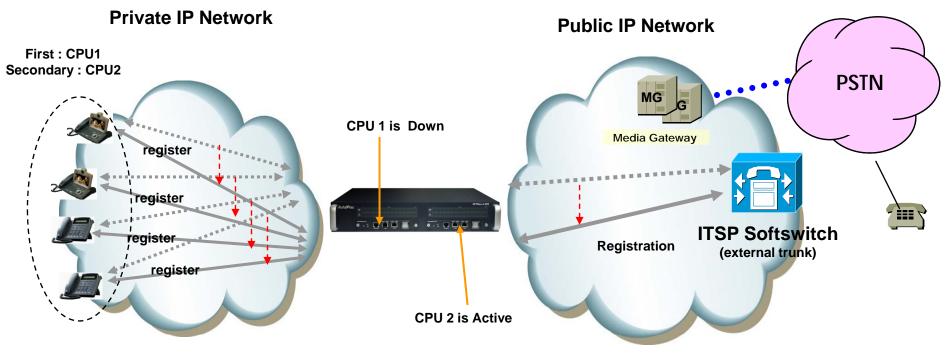
IPNext600 System Block Diagram



System Redundancy Features

IPNext600 Next Generation IP-PBX System

- Active-Active Duplication Scheme
- Active Standby Duplication Scheme
- VRRP based Duplication Scheme



Active – Standby Duplication Scheme (example)



www.addpac.com

Software Service

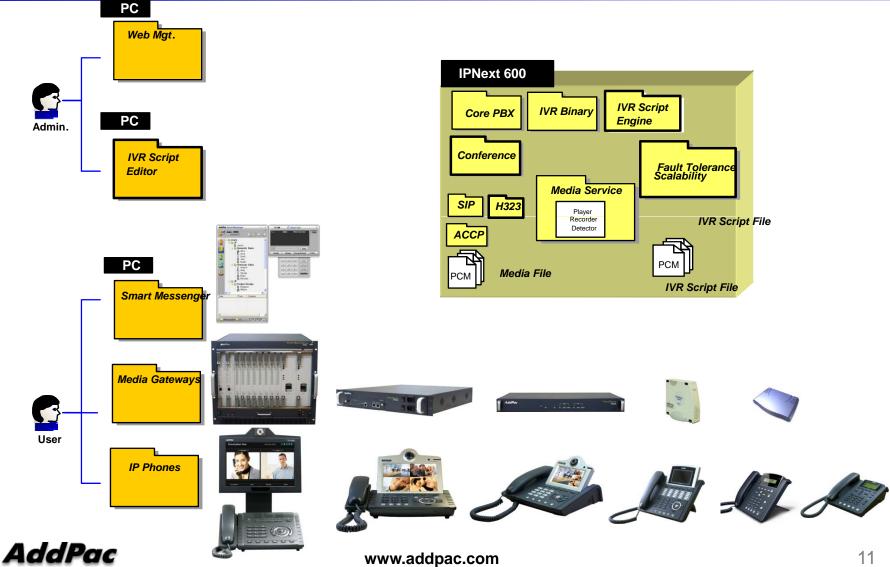
IPNext600 Next Generation IP-PBX System

Built-in AddPac APOS Internetworking Software

- Scalability, Functionality, and Stability Features
- Advanced IP-PBX Call Manager Features
- QoS Control Features
- Programmable Video, Audio, and Voice Services
 - Audio, Video and Voice Codec
- Firmware Upgradeable Architecture
- Industry Standard Network Protocol Features
- Highly User Friendly Management Features
 - PC based Smart Messenger
 - Smart Multimedia Manager for Operation & Management



IP-PBX Software Components



IPNext600 Next Generation 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



IPNext600 Next Generation 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



IPNext600 Next Generation 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



IPNext600 Next Generation 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



IPNext600 Next Generation 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

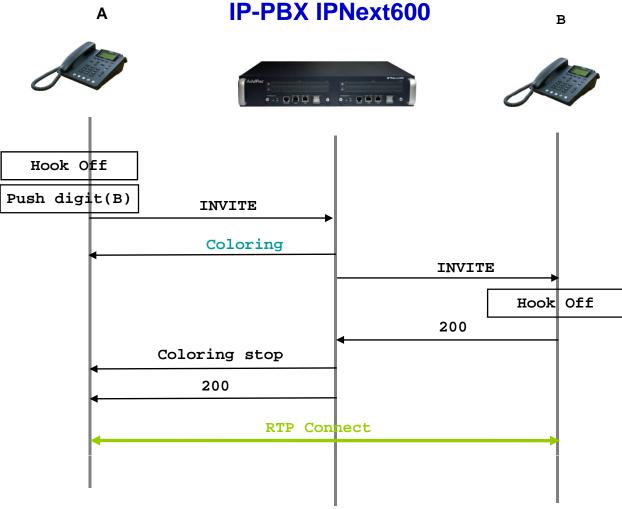
Music & Announcement

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



IP Telephony Basic Call Scenario

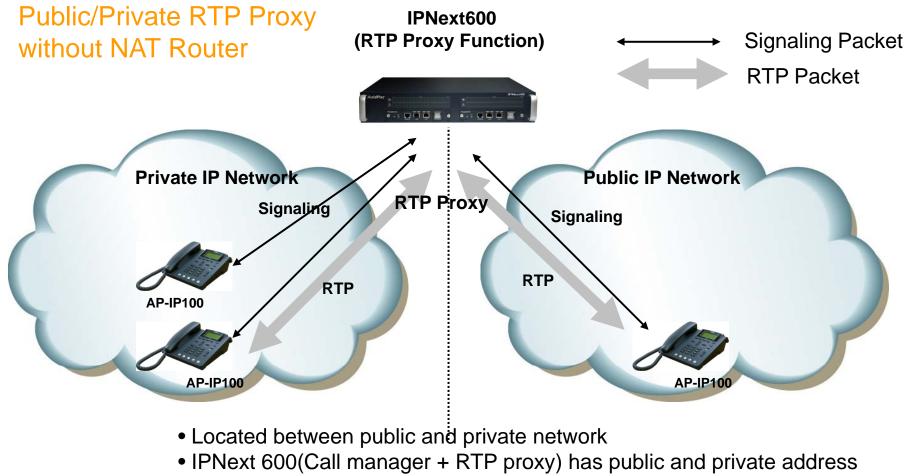
IPNext600 Next Generation IP-PBX System



AddPac

www.addpac.com

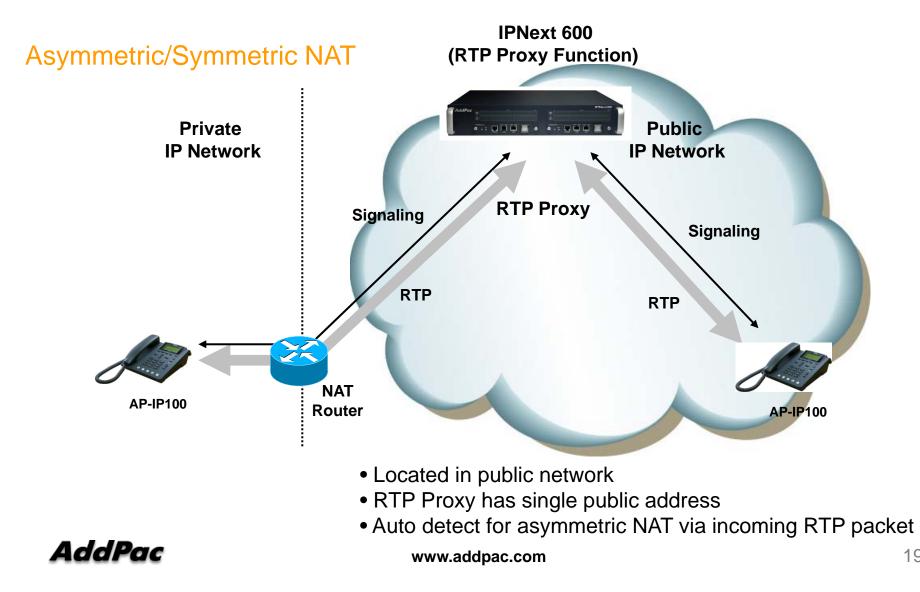
IPNext600 Next Generation IP-PBX System



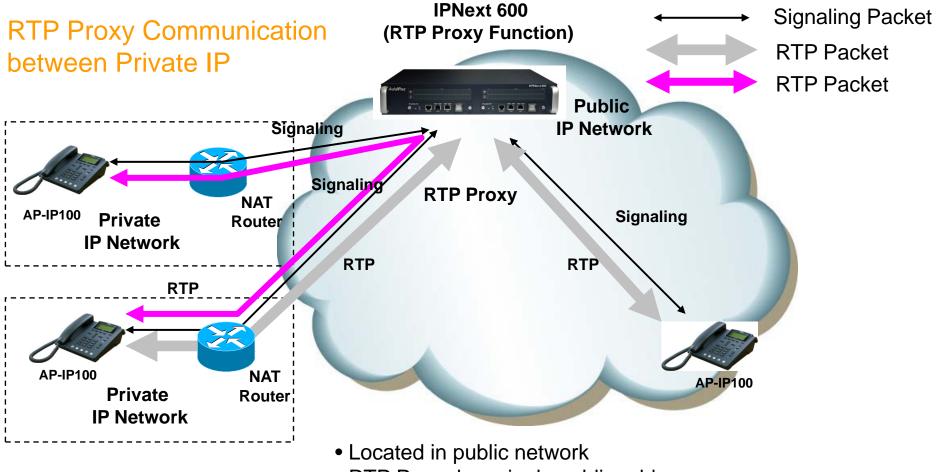
• IPNext 600 determine that the call is internal or external



www.addpac.com

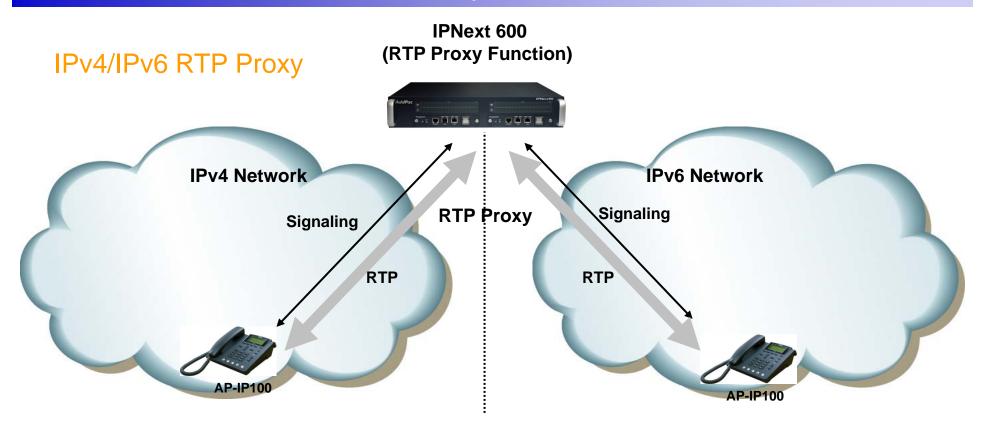


IPNext600 Next Generation IP-PBX System



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

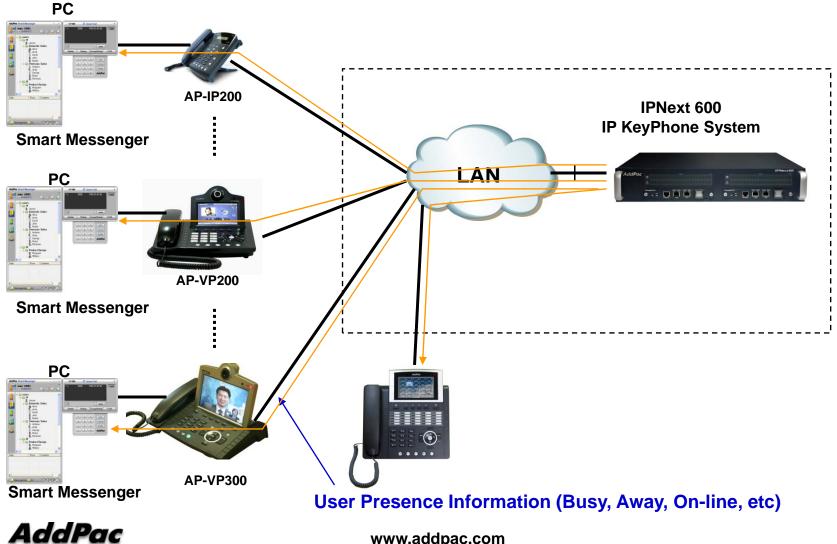
IPNext600 Next Generation IP-PBX System



• IPNext 600(Call manager + RTP proxy) has IPv4 and IPv6 address

User Presence Service for UC

IPNext600 Next Generation IP-PBX System



www.addpac.com

IPNext600 Next Generation IP-PBX

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)



IPNext600 Next Generation IP-PBX

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)



IPNext600 Next Generation IP-PBX

Miscellaneous

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

IPNext600 Next Generation IP-PBX

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

User Terminals

- AP-VP500 Video Phone
- AP-VP300 Video Phone
- AP-VP280 Video Phone
- AP-VP250 Video Phone
- AP-VP150 Video Phone
- AP-VP120 Video Phone
- AP-IP300 IP Phone
- AP-IP150 IP Phone
- AP-IP120 IP Phone •
- AP-IP90 IP Phone
- AP-PT100 User Presence Terminal
- AP-WP100 WiFi IP Phone
- AP-SMP100 Soft Phone
- Smart Messenger for UC AddPac



AP-VP500 Video Phone

- 12.1 Inch LCD Display, Touch Screen
- External Video Interface
 - Composite (RCA) Video In/Out, S-Video Out,
 - Component Out
- External Audio In/Out
- High-performance Video Codec Support
 - $-\,$ H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)
- Video Conference Call Support (AddPac MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality, Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error





AP-VP300 Video Phone

- 7 Inch LCD Display, Touch Screen
- External Video Interface
 - Composite (RCA) Video In/Out, S-Video Out
- External Audio In/Out
- High-performance Video Codec Support
 - $-\,$ H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)
- Video Conference Call Support (AddPac MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality, Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error





AP-VP250 Video Phone

IPNext600 Next Generation IP-PBX System

- 4.3 Inch LCD Display, Touch Screen
- 25 Speed-Dial Key with Presence Indication LAMP.
- External Video Interface
 - Composite (RCA) Video In/Out, S-Video Out
- External Audio In/Out
- High-performance Video Codec Support
 - H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



AddPac

AP-VP150 Video Phone

IPNext600 Next Generation IP-PBX System

- 4.3 Inch LCD Display
- External Video Interface
 - Composite (RCA) Video Out, S-Video Out
- External Audio In/Out
- High-performance Video Codec Support
 - $-\,$ H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)
- Video Conference Call Support (AddPac MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



AddPac

AP-VP120 Video Phone (New)

- 4.3 Inch LCD Display
- External Video Interface
 - Composite (RCA) Video Out, S-Video Out
- External Audio In/Out
- High-performance Video Codec Support
 - H.263, MPEG-4, JPEG, and H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)
- Video Conference Call Support (AddPac MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error





AP-IP300 Premium IP Phone

- LCD Window : 4.3 Inch High Quality Color LCD
- External I/O Interface
 - Audio In/Out
 - Two(2) Fast Ethernet Interface
 - PSTN FXO Interface (option)
 - USB 1.1 Host Mode Interface
- 25 Speed Dial Key and Presence Indication LAMP
- Various Voice Codec Support
 - G.711, G.726, G.729, G.723.1, etc
- SIP, H.323 Signaling Support
- Traffic Control, IP Share
- IP Audio Broadcasting Support







AP-IP150 IP Phone

- LCD Display
- External I/O Interface
 - Audio In/Out
 - Two(2) Fast Ethernet Interface
 - RS-232C Console(RJ45)
 - PSTN FXO Interface (optional)
- PoE (Power over Ethernet) Support
- Various Voice Codec Support
 G.711, G.726,G.729,G.723.1 etc
- SIP, H.323 Signaling Support
- Traffic Control, IP Share
- IP Audio Broadcasting Support





AP-IP120 IP Phone

- RISC+DSP Microprocessor Computing Power (Dual Processor Architecture)
- Optional PSTN Backup (FXO) Interface
- Optional PoE (Power over Ethernet)
- High quality Audio and Voice Interface
 - Stereo Audio Input Connector
 - Stereo Audio Output Connector
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
- LCD Window : Graphic LCD (4 Line Text)
- 12 Speed-Dial Key with Presence Indication LAMP
- Power Supply
 - External Power Adaptor (5V, 2A)





AP-IP90 IP Phone

- LCD Window : Graphic LCD (4 Line Text)
- External I/O Interface
 - Audio In/Out
 - Two(2) Fast Ethernet Interface
 - PSTN FXO Interface (optional, AP-IP90E Model)
- Various Voice Codec Support
 - G.711, G.726, G.729, G.723.1, etc
- SIP, H.323 Signaling Support
- Traffic Control, IP Share
- IP Audio Broadcasting Support



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







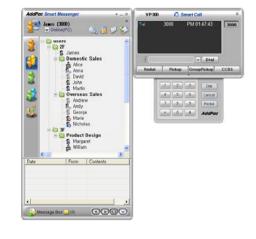
Smart Messenger for UC

IPNext 600 Next Generation 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
- Support Smart Phone Control and Setup
 - Call Control and Forward Setup
- Support Unified Message Box
 - Voice Mail Box
 - Short Message Box

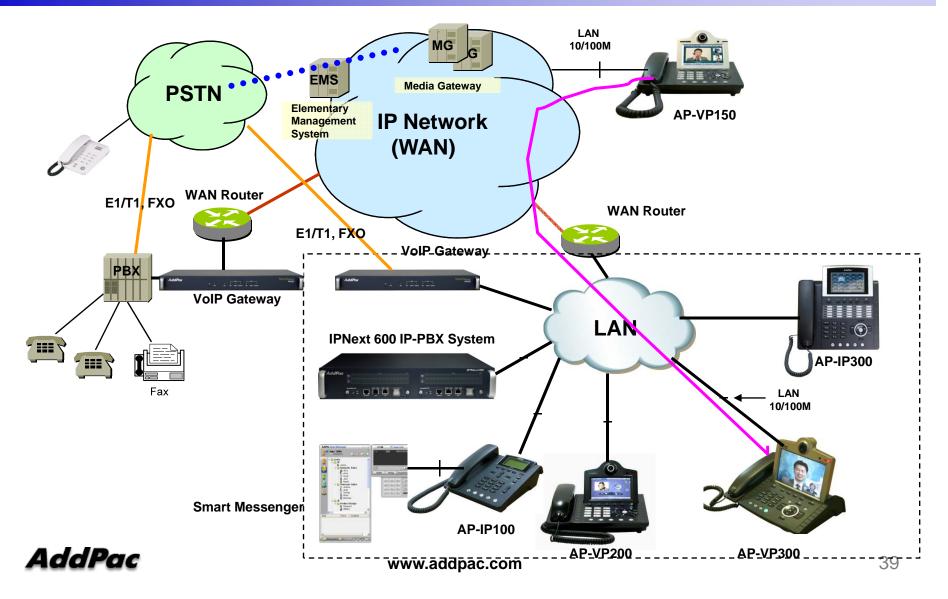








Standard IP-PBX System Application



Ordering Information

• IPNext 600 Next Generation IP-PBX Hardware

- IPNext 600 IP-PBX Main Body
- High-performance 64bit RISC CPU
- High-End 64bit CPU board (Hot-Swap)
- 2-ports Fast Ethernet and 1-port RS-232C Console
- Including Network Cable Set & Ext. Power Supply, etc.
- Power Supply Module (Hot-Swap)
- Additional CPU board for Fault Tolerant (option)
- Additional Power Supply Module for Redundancy (option)
- Built-in APOS Internetworking Software for IPNext 600
- 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

