



## IPNext 5000 IP-PBX

With the growth of business customers' needs for IP telephony and broadband converged network applications, the trends towards 'All IP' communication environment are becoming a reality keeping pace with the technological advance of next generation networking. IPNext 5000 IP-PBX delivers a new IP communication solution for 'All IP' environment as a core system of AddPac's comprehensive IP solution which features various end user terminal equipments such as AP-VP300 IP video phone and AP-IP300, AP-IP200 IP phone etc.

Designed on the foundation of high performance embedded RISC CPU, IPNext5000 supports the dual CPU boards and adopts the dual HDD system per CPU boards for hard disk redundancy(RAID1 Configuration). Also, IPNext5000 supports the module type dual power supply. It's ideal IP-PBX system for medium and large enterprise taking a full advantage of system stability.

IPNext5000 NGN (Next Generation Network) IP-PBX provides the Active-Active system duplication features for fault tolerant architecture. For the system duplication, it use the dual(2) Hot-Swap CPU boards and two(2) 3.5 inch HDD module slot (RAID 1) per CPU board at the front part of chassis. Also, it also comes with two(2) 10/100/1000Mbps gigabit ethernet port at the rear part and console port at front panel. It features a wide variety of SIP based internal call scenarios such as Basic Call, Coloring Service, Music on Hold, Blind Transfer, Call Pickup, Group Call Pickup, Consult Call, Switching Call, Consult Transfer, Call Waiting, Call Waiting Notify, Call Park, Call Pickup Remote, Hunt Group, supporting SIP, H.323 for external calls concurrently. In addition, 3.5 inch Dual IDE high capacity HDD for RAID 1 configuration is well-suited to the services which need sizable memory capacity such as Voice Mail ensuring the system consistency and the high availability.

As 'All IP' multimedia telephony environment is becoming a reality with advanced next generation networking technology; there is now critical demand of optimal integration of the solutions. AddPac Technology offers a range of solution covering VoIP and Media gateway, audio/video terminal equipments, Independent audio/video MCU, IP audio/video broadcasting and VoD solution, Network DVR, Audio/video recording solution, Traffic controller, QoS equipment to meet customers' various communication requirements, so you can best optimize your network environment to maximize benefit from convergence of multimedia communication.

## IP Terminals for IPNext5000 IP-PBX



AP-VP300



AP-IP300



AP-IP200

## Product Highlights

- New 'All-In-One' IP-PBX Concept with Voice, Audio, Data Integrated for Complete IP Telephony System
- Hot-Swap IDE type dual 3.5 Inch HDD (RAID1 Configuration Available)
- Fault Tolerant and Scalable Architecture
- Upgradeable System Architecture based on Programmable RISC
- Two(2) 10/100/1000Mbps Gigabit Ethernet Interface per a system board
- RS-232C Console Interface for CLI (Command Line Interface)
- SIP Application Server, Proxy, Registrar and Location Server(RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Account Support
  - IP UA Client Role for Registering to ITSP SIP Server
  - H.323 Gatekeeper Client Role for Registering to ITSP H.323 Gatekeeper Server
- Various IP Telephony Call Scenario (Coloring, Music on Hold, Call Transfer, etc)
- Powerful IVR function via IVR Scenario Editor
- Voice Mail Function Support
- Multi-Party Voice Conference via External MCU Module (DSP, Two(2)session 3,4 party) (G.723.1, G.729, G.726, G.711,etc)
- Remote Firmware Upgrade Through FTP & TFTP Protocol
- Essential Scalability Features such as DHCP Server & Relay, NAT/PAT, IEEE Transparent Bridging, and Debugging/Diagnostics, etc.

## IPNext5000 Application

- IP Multimedia Telephony Service
- IP based Call Center
- SIP Proxy Server

## Hardware Specification

- Dual System Processor Board
- System Processor Board
  - Flash Memory : 16Mbyte
  - DDR SDRAM Memory : 1Giga Byte
  - Boot Memory : 512Kbyte
- System Processor Board Network Interface
  - LAN0 Port : 10/100/1000Mbps Gigabit Ethernet
  - LAN1 Port : 10/100/1000Mbps Gigabit Ethernet
  - Console Port : RS232C Interface Port for CLI
- System Processor Board Hard Disk
  - Dual Hard Disk Module (RAID1) : 3.5 Inch IDE

## Power & Operational environment

- Dual Power Module Internal Free Voltage Power
- Power Consumption 100Watt
- Operation Temperature 0°C~+45°C
- Storage Temperature -40°C~+85°C
- Humidity 5%~95%

## Dimensions

- Dimension (H x W x D) : 400 x 482 x 340 (mm)
- Weight : 31 Kg

## IP-PBX Signaling Protocol

- SIP Application Server, Proxy, Registrar and Location Server(RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Account 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 Service

- Provides with GUI-based Smart IVR Scenario Editor
- Upload/Download Scenario by Smart IVR Scenario Editor
- Supports Multiple Concurrent Scenarios
- Support Recordable IVR Prompts

## IP Telephony Service

- Trunk Hunting by Preference or Sequential
- Calling Hunting by Preference, Simultaneous, Random
- Calling 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 Swapping
- Call Hold

## Voice Mail

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

## Conference (External MCU)

- Ad-Hoc Conference
- Dial-Out Conference
- Meet-me Conference
- Multiple External MCU Support (Video, Audio, etc) : AP-MC1000, AP-MC1500, AP-MC3000
- Conference Chair and Participants Management

## Music & Announcement

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

## Network Protocol & Service

- 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 Private Dial-up Network : L2TP Server)

## IPv4/IPv6 Address & Interworking

- 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
  - DHCP, PPPoE
- IPv6 Address Configuration
  - EUI-64
  - Autoconfig (Neighbor Advertisement and Solicitation)

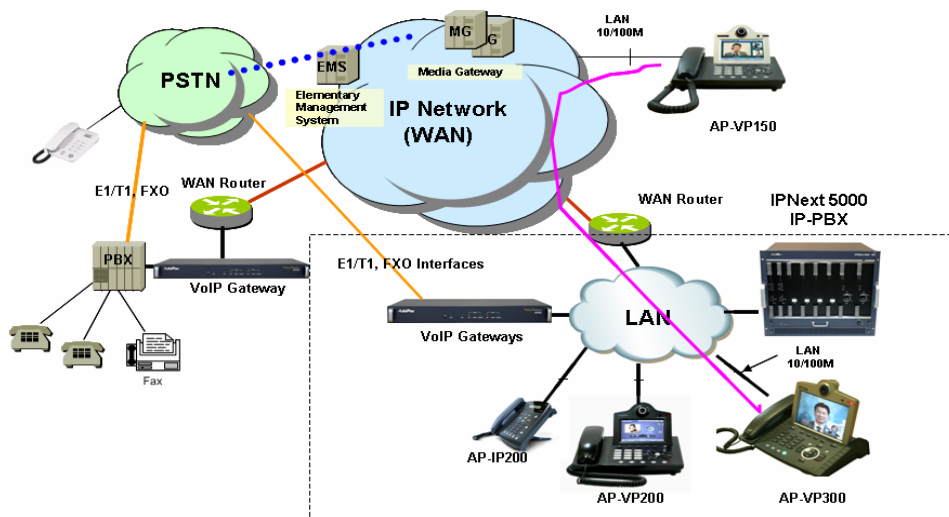
## Network Management

- Standard SNMP Agent (MIB v2) Support
- Console, Telnet
- Smart Multimedia Manager for IP-PBX
- Remote Download via FTP/TFTP

## Security Feature

- IP Packet Filtering / Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-level User Account Management
- Auto-disconnect for Telnet/Console Sessions
- PPP User Authentication Support
- PAP, CHAP

## IPNext 5000 Network Diagram



## Ordering Information

- IPNext5000 IP-PBX
  - Dual System Boards
  - Dual HDD/system board
  - Two(2) Gigabit Ethernet/ system board
  - Dual Power Supply
  - APOS v8.xx Manual
- CAB-LAN Ethernet Cable
- CAB-CON RS-232C Console Cable