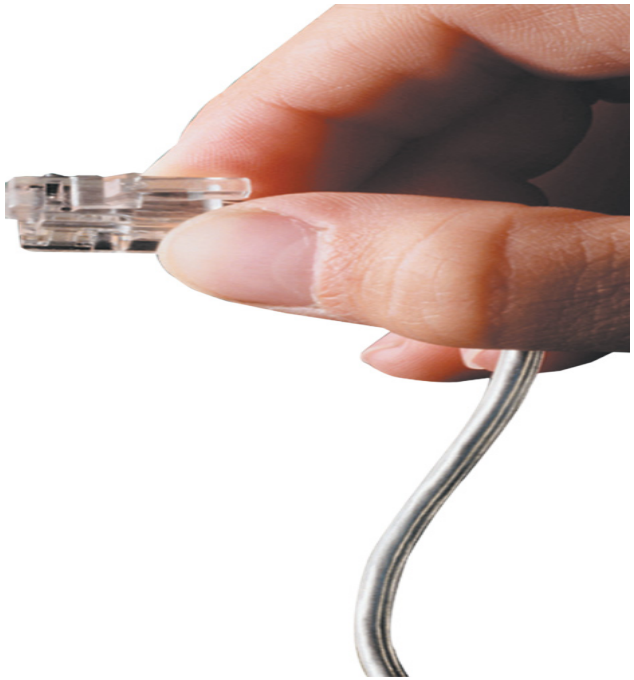


IPNext 1000
NGN IP-PBX

High-performance Next Generation IP-PBX Solution



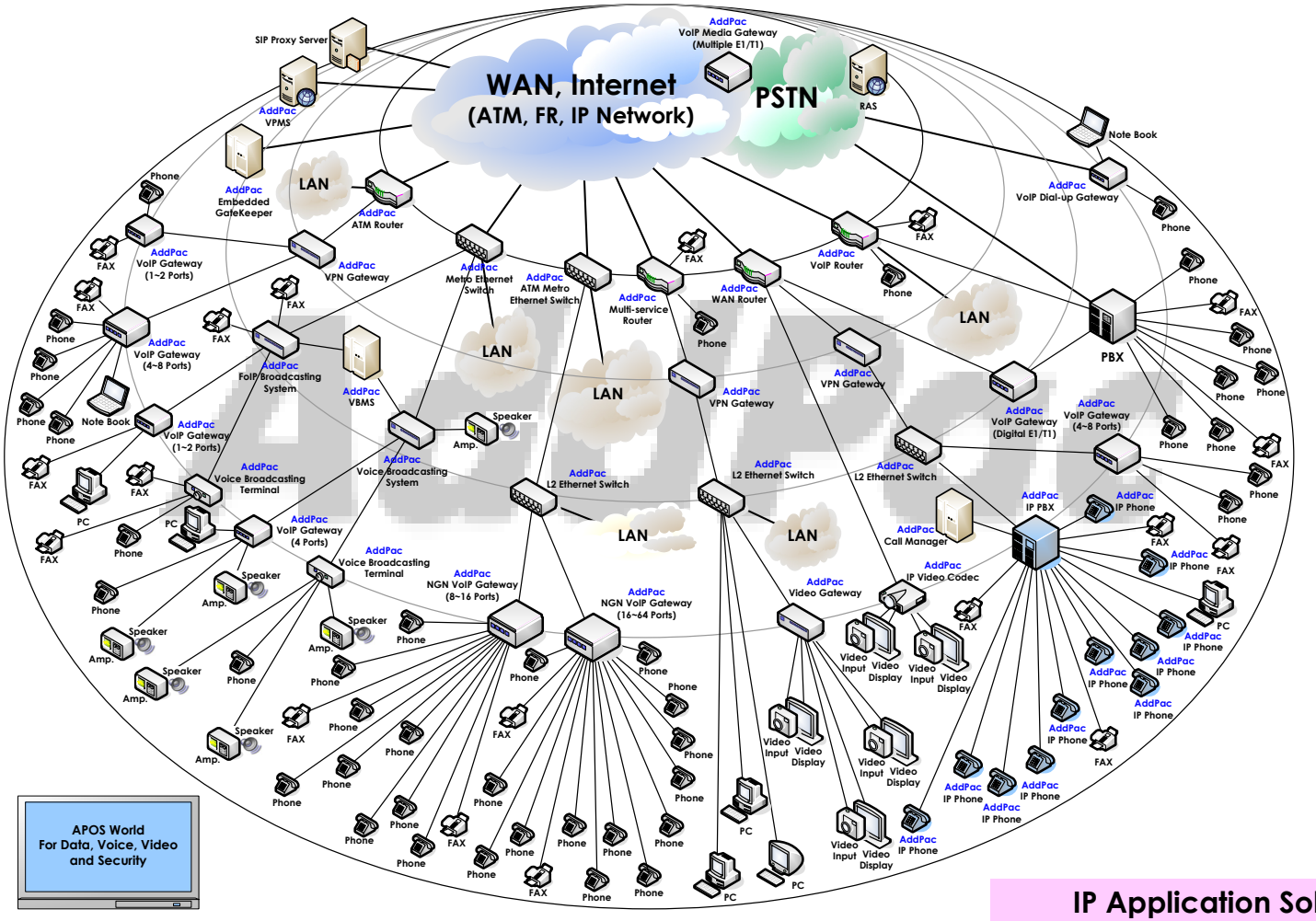
AddPac

AddPac Technology

Sales and Marketing

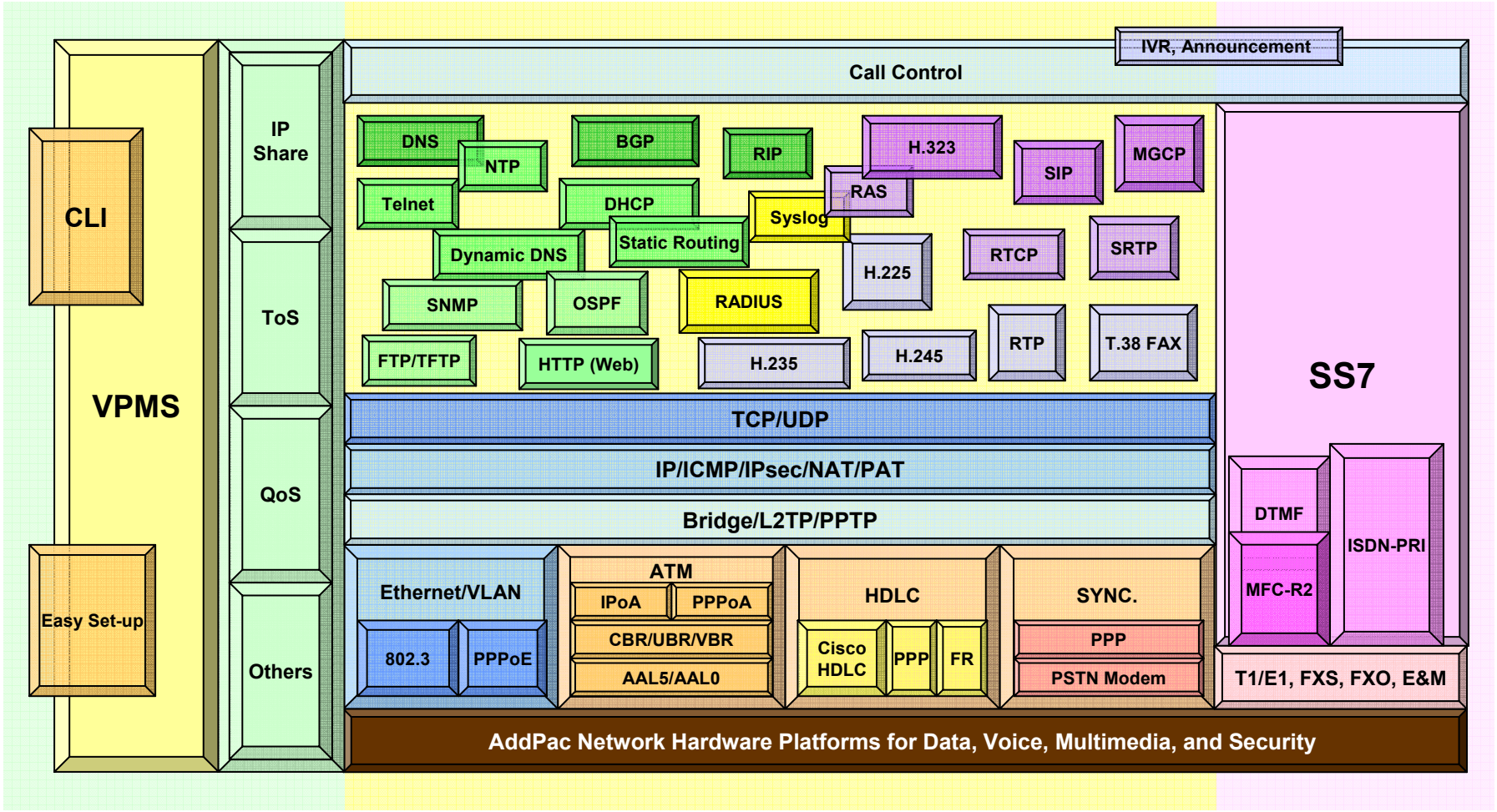
www.addpac.com

V²oIP Internetworking Solution



IP Application Solutions

APOS Internetworking Protocol



IPNext 1000 NGN IP-PBX

- Product Overview
- Product Road Map
- Hardware Specification
- Multimedia Service
- Software Service
- Video Service & Features
- Audio & Voice Service and Features
- Network Service and Features
- User Terminals
- Application Area
- Ordering Information

Product Overview

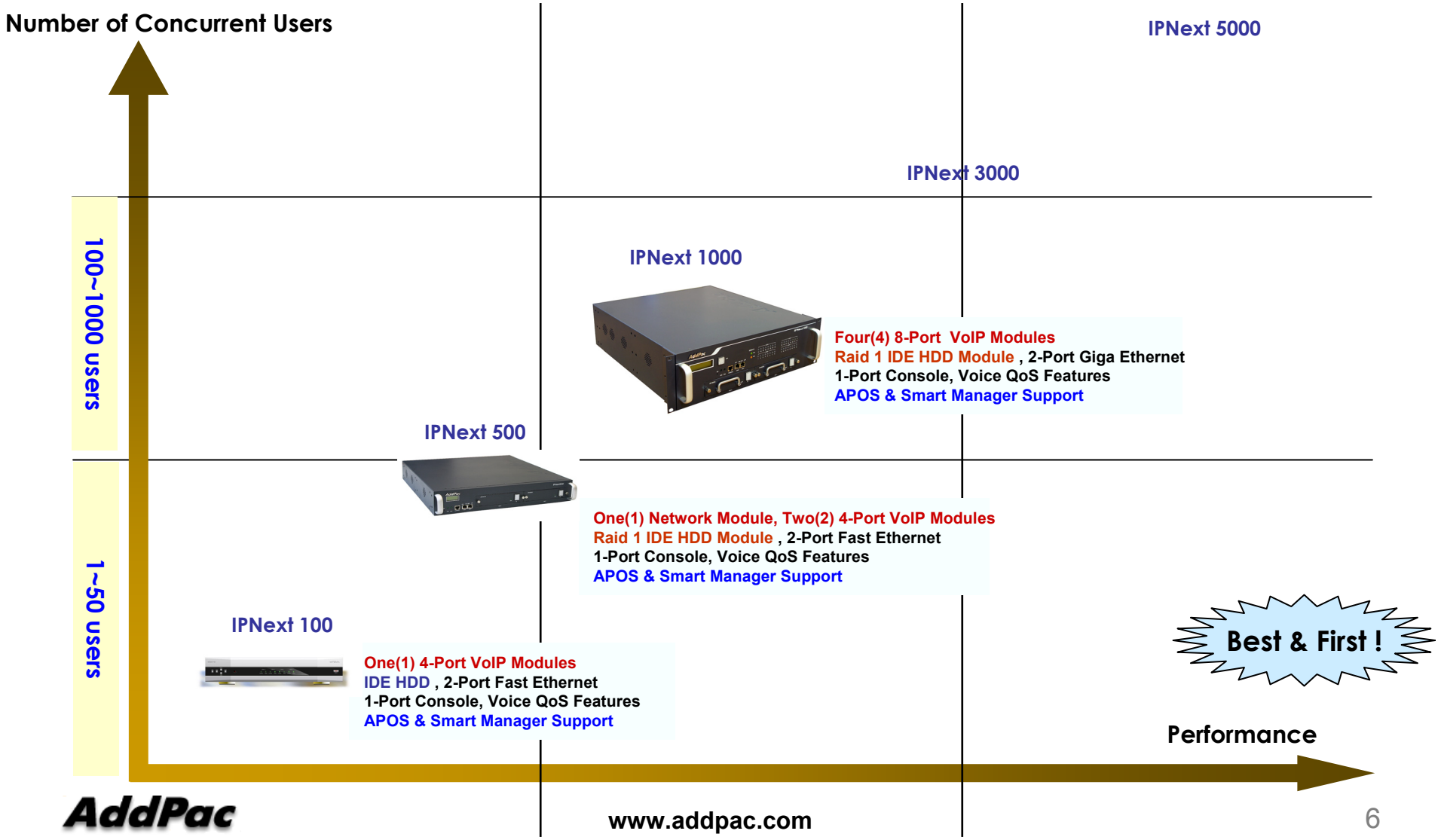
IPNext 1000 Next Generation IP-PBX

- IP based Advanced PBX Solution
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Voice/Audio Privacy Protection
  - Secure RTP, VPN Function
- How-Swap **RAID 1** Hard Disk Backup
- **Power Duplication**



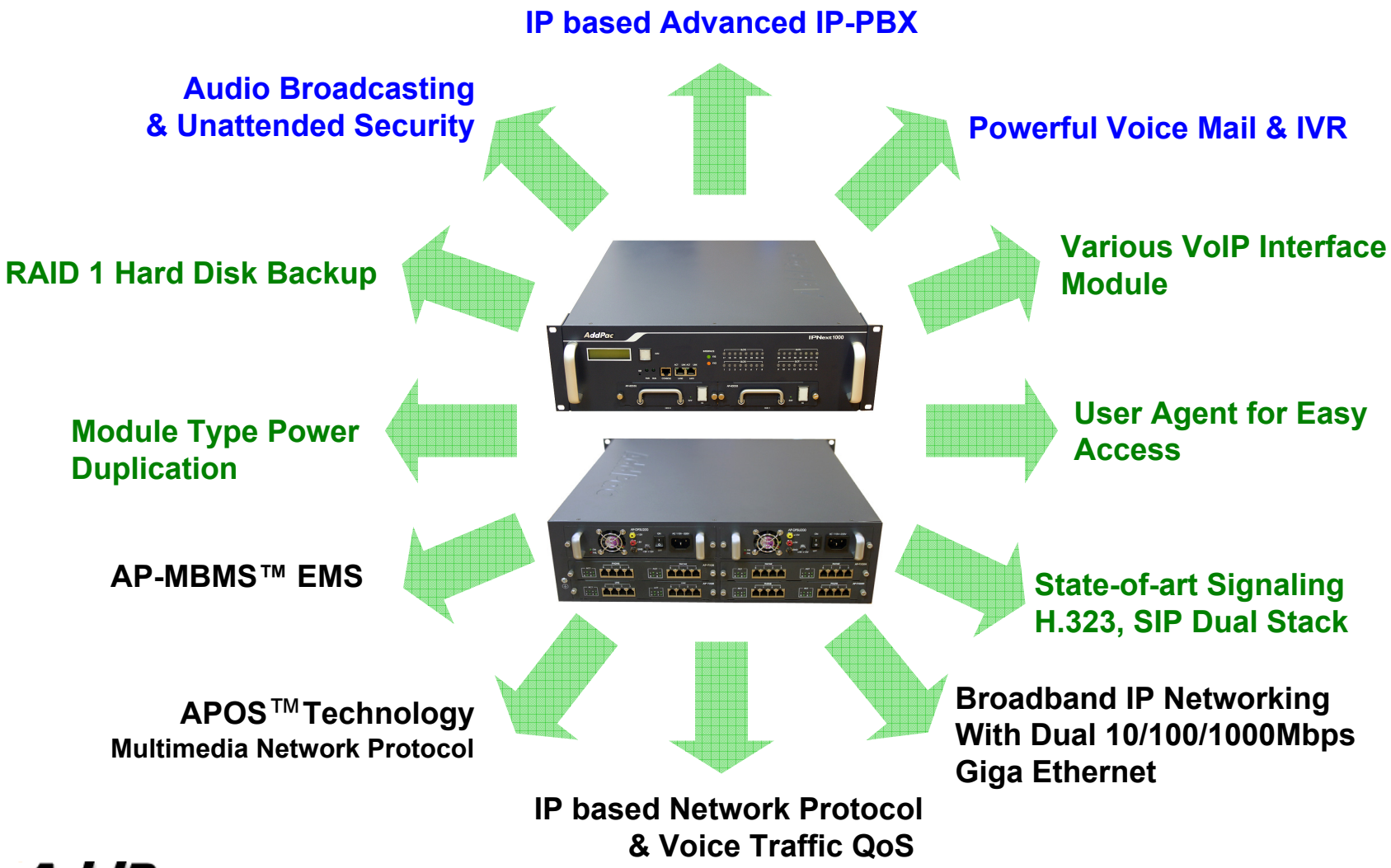
Product Overview

IPNext 1000 Next Generation IP-PBX



Product Highlights

IPNext 1000 Next Generation IP-PBX



Hardware Specification

IPNext 1000 Next Generation IP-PBX

64bit CPU

- **64bit RISC Microprocessor Computing Power**
- **Main Chassis**
  - **Fixed Network Interface**
    - Two(2) 10/100/1000Mbps **Giga Ethernet**
    - One(1) RS-232C Console (RJ45)
  - **Status Indication LCD**
  - **Two(2) Hard Disk Interface Slot for RAID1 Configuration**
  - **Four(4) VoIP Module Slots for FXS, FXO,E&M, Digital E1/T1, Audio broadcasting, etc**
  - **VoIP Port Indication LED**
  - **Power Redundancy**

Hardware Specification

IPNext 1000 Next Generation IP-PBX

64bit CPU

Audio Codec

- **VoIP Interface Module**

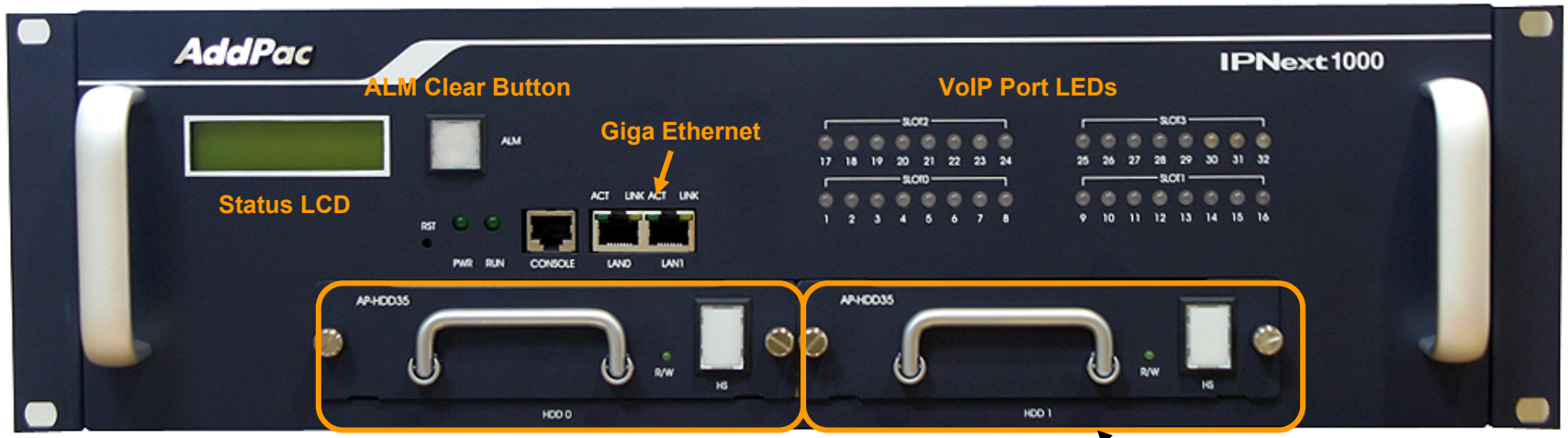
AP-FXS4		4-Port FXS Voice Processing Module (4 x RJ11)
AP-FXO4		4-Port FXO Voice Processing Module (4 x RJ11)
AP-E&M4		4-Port E&M Voice Processing Module (4 x RJ11)
AP-FXO2S2		2-Port FXO & 2-Port FXS Voice Processing Module (4 x RJ11)
APVI-1E1		1-Port PBX Digital E1 Module (1 x RJ45)
APVI-1T1		1-Port PBX Digital T1 Module (1 x RJ45)

Hardware Specification

IPNext 1000 Next Generation IP-PBX

64bit CPU

IPNext 1000 Front Side



Hard Disk Module (RAID1)



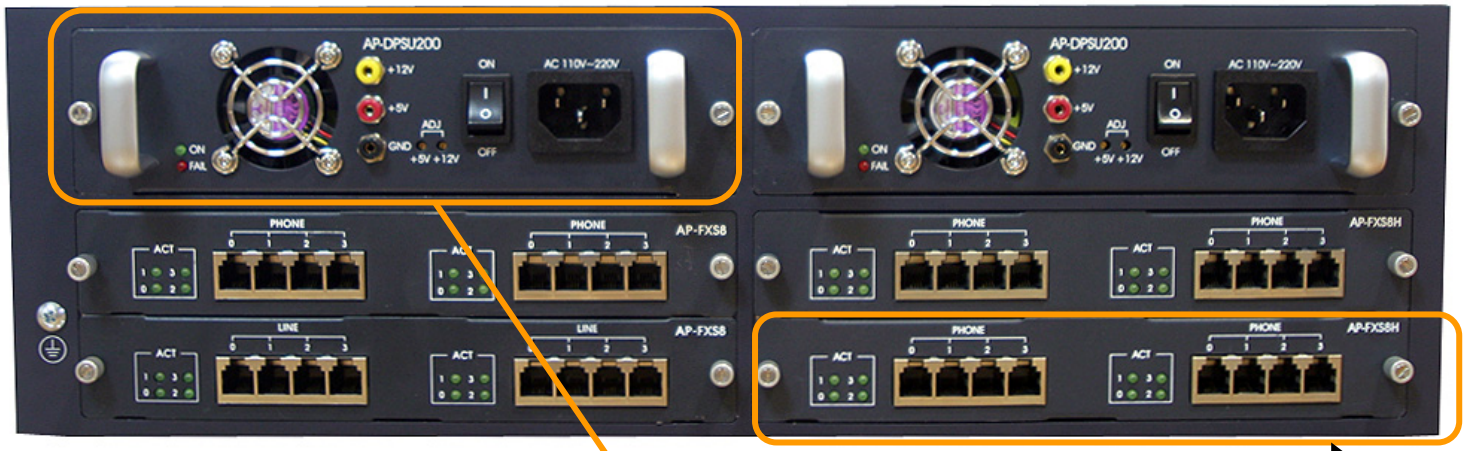
Hot-Swap Switch & LAMP Indication

Hardware Specification

IPNext 1000 Next Generation IP-PBX

64bit CPU

IPNext 1000 Back Side



VoIP Modules

VoIP Modules

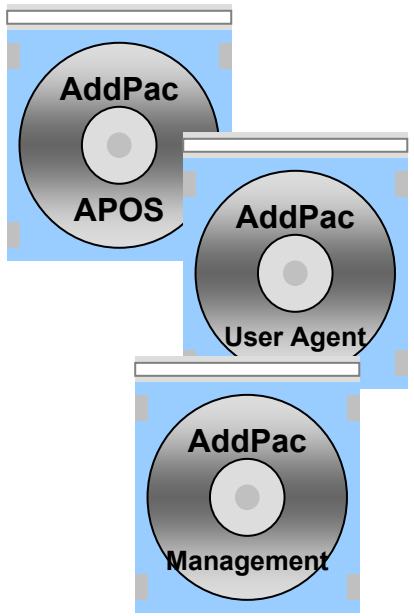


Power Supply Module

Software Service

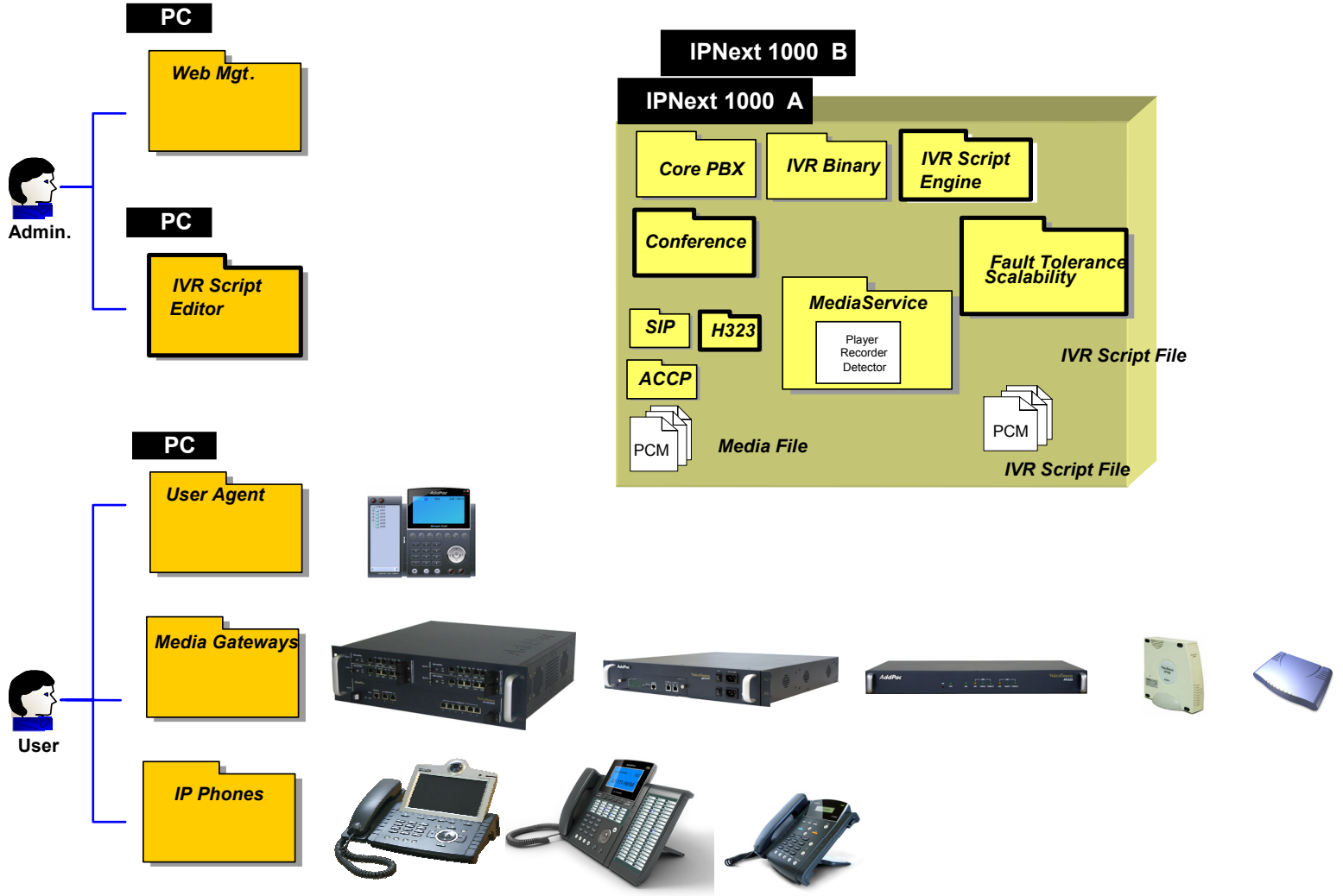
IPNext 1000 Next Generation IP-PBX

- **Built-in AddPac APOS Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Advanced IP-PBX Call Manager Features
  - Media Gateway Features
  - Network Interface Features
  - Video Traffic Features
  - QoS Control Features
- **Programmable Video, Audio, and Voice Services**
  - Video Codes, Audio, and Voice Codec
- **Firmware Upgradeable Architecture**
- **Industry Standard Network Protocol Features**
- **Highly User Friendly Management Features**
  - PC based User Agent
  - Smart Call Manager



IP-PBX Software Components

IPNext 1000 Next Generation IP-PBX



Telephony Service and Features

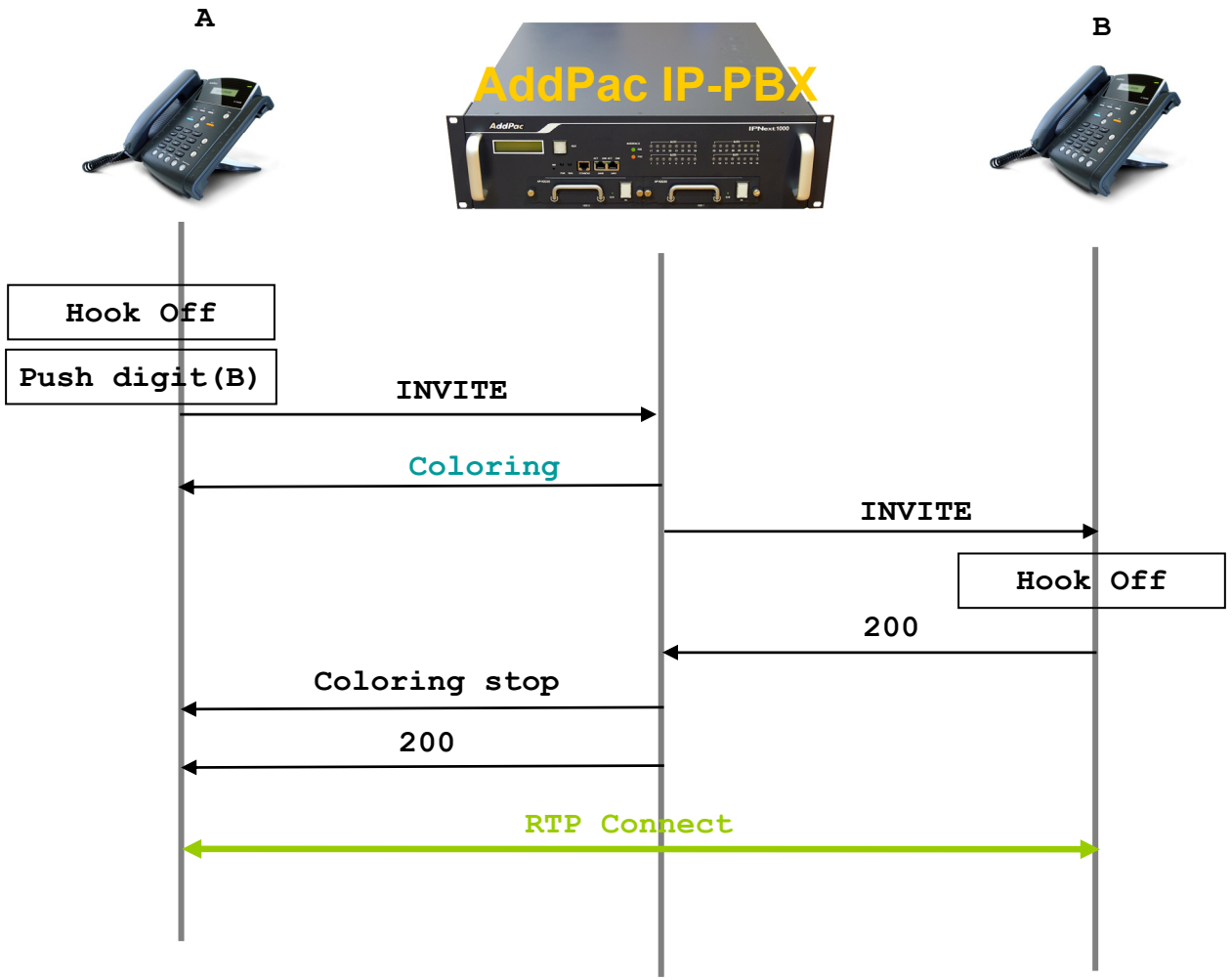
IPNext 1000 Next Generation IP-PBX

- Basic Call
- Coloring Service
- Music On Hold
- Blind Transfer
- Call Pickup
- Group Call Pickup
- Consult Call
- Switching Call
- Consult Transfer
- Call Waiting
- Call Park
- Call Pickup Remote
- Hunt Group



SIP based Basic Call Scenario

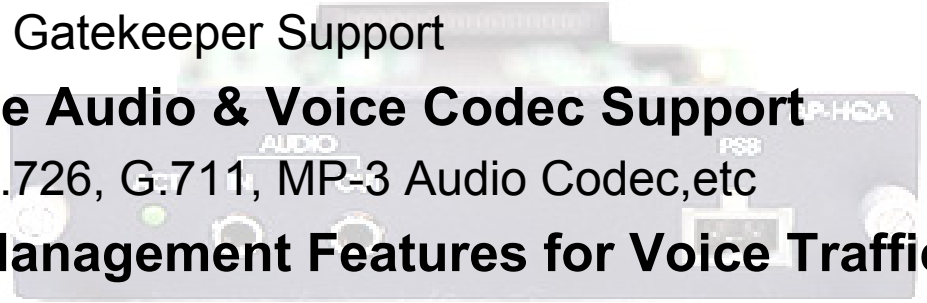
IPNext 1000 Next Generation IP-PBX



Audio & Voice Service and Features

IPNext 1000 Next Generation IP-PBX

- **Audio & Voice Networking Interface**
  - Audio Input/Output Port (2 x 3.5mm Stereo Female Connector)
- **VoIP based Signaling Protocol Support**
  - H.323, SIP Multiple Signaling Protocol Stack
  - H.323 Gateway, Gatekeeper Support
- **High-performance Audio & Voice Codec Support**
  - Line IN/OUT : G.726, G.711, MP-3 Audio Codec,etc
- **Enhanced QoS Management Features for Voice Traffics**



Network Service and Features

IPNext1000 Next Generation IP-PBX

- **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

Network Service and Features

IPNext1000 Next Generation IP-PBX

- **Network Managements**
  - 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

User Terminals

IPNext 1000 Next Generation IP-PBX

- AP-VP300 High Performance Video Phone
- AP-IP500 VoD Phone
- AP-IP350 Premium IP Phone
- AP-IP300 Premium IP Phone
- AP-IP200 IP Phone
- Future Plan : AP-WP100 WiFi IP Phone
- Future Plan : AP-SoundStation
- Window based User Agent

User Terminal : AP-VP300 Video Phone

IPNext 1000 Next Generation IP-PBX



- **7 Inch LCD Display, Touch Screen, Remocon**
- **External Video Interface**
  - Composite (RCA) Video In/Out, S-Video Out
  - Audio (RCA) 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**

User Terminal : AP-IP500 VoD Phone

IPNext 1000 Next Generation IP-PBX



- **7 Inch LCD Display, Touch Screen, Remocon**
- **External Video Output Interface**
  - Composite (RCA) Video Out, S-Video Out
  - Audio (RCA) In/Out
- **High-performance Video Decoder 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**

User Terminal : AP-IP350 Premium IP Phone

IPNext 1000 Next Generation IP-PBX

- **7 Inch Color LCD Display, Touch Screen, Remocon Menu Key**
- **High quality Head Set Interface**
- **Network Interface**
  - Two(2) 10/100Mbps Fast Ethernet
  - One(1) RS-232C Console
  - One(1) USB 1.1 Interface for External Memory, etc
- **SIP, H.323 Signaling Support**
- **Standalone IP Phone**
- **IP-PBX Terminal**
- **Audio/Voice Broadcasting Terminal**



User Terminal : AP-IP300 IP Phone

IPNext 1000 Next Generation IP-PBX

- **Large Blue LCD Display**
- **External I/O Interface**
  - Audio (RCA) In/Out, MIC, Headphone
  - Two(2) Fast Ethernet Interface, RS-232C Console(RJ45)
  - PSTN FXO Interface (optional)
- **Premium IP Phone Features**
- **PoE (Power over Ethernet) Support**
- **Various Voice Codec Support**
  - **G.711, G.726,etc**
- **SIP, H.323 Signaling Support**
- **QoS Traffic Control, IP Share**
- **IP Audio Broadcasting Support**



User Terminal : AP-IP200 IP Phone

IPNext 1000 Next Generation IP-PBX

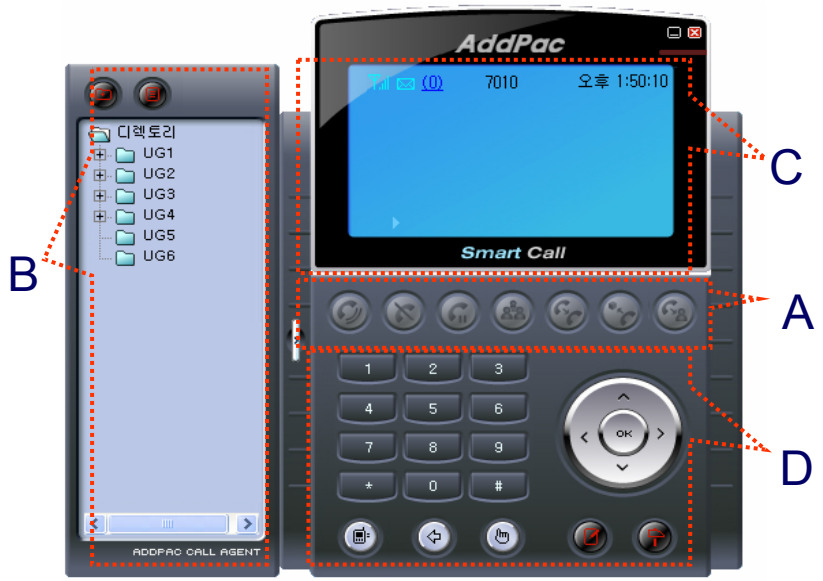
- **LCD Display**
- **External I/O Interface**
  - Audio (RCA) In/Out, MIC, Headphone
  - Two(2) Fast Ethernet Interface, RS-232C Console(RJ45)
  - PSTN FXO Interface (optional)
- **PoE (Power over Ethernet) Support**
- **Various Voice Codec Support**
  - **G.711, G.726,etc**
- **SIP, H.323 Signaling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



User Agent (Window based)

IPNext 1000 Next Generation IP-PBX

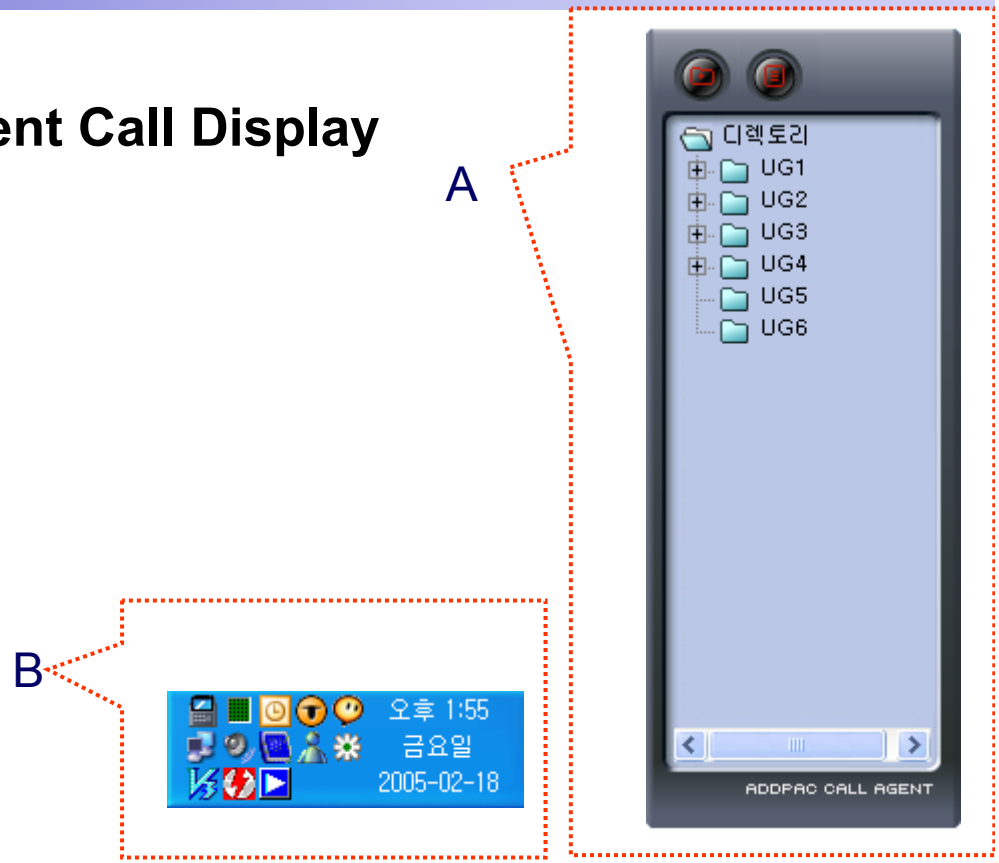
- **IP Phone Emulation**
- **IP Phone Call Agent Role**
- **Region A :**
  - Call Related Function
    (Call Pickup, Hold, Transfer, etc)
  - Environment Configuration
- **Region B :**
  - Provide Directory Info.
- **Region C :**
  - Inbound, Outbound Call Display
- **Region D:**
  - Telephone Feature Handling



User Agent (Window based)

IPNext 1000 Next Generation IP-PBX

- **Icon, System Tray Menu, Recent Call Display**
- **Region A :**
  - Recent Call Display
- **Region B :**
  - If program is executed,
    Icon is display in Tray Bar.



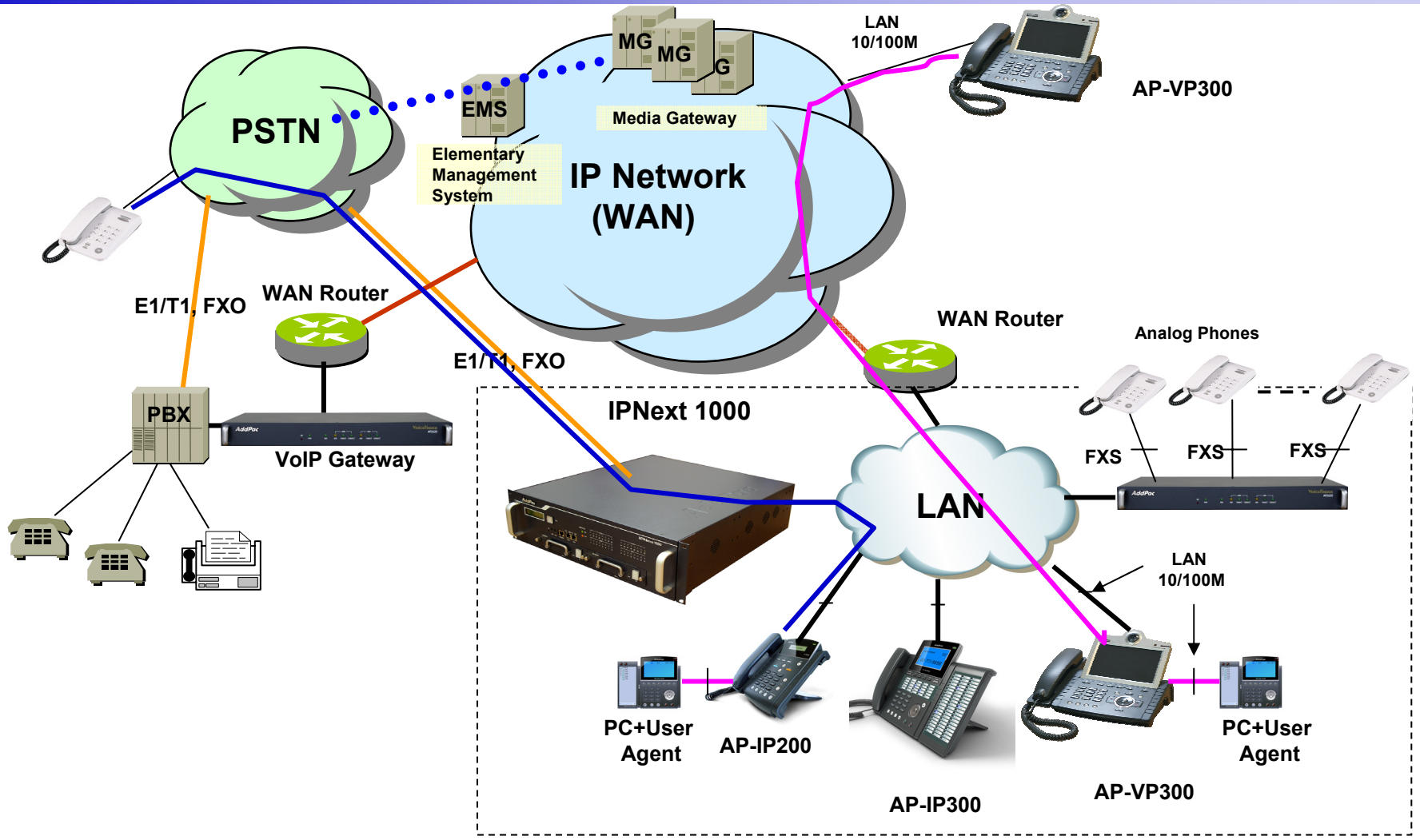
IPNext 1000 Next Generation IP-PBX

Application Area

- **Standard IP-PBX Application**
- **IP-PBX + IP Audio Broadcasting Application**
- **IP-PBX + QoS, IPS* Router Application**

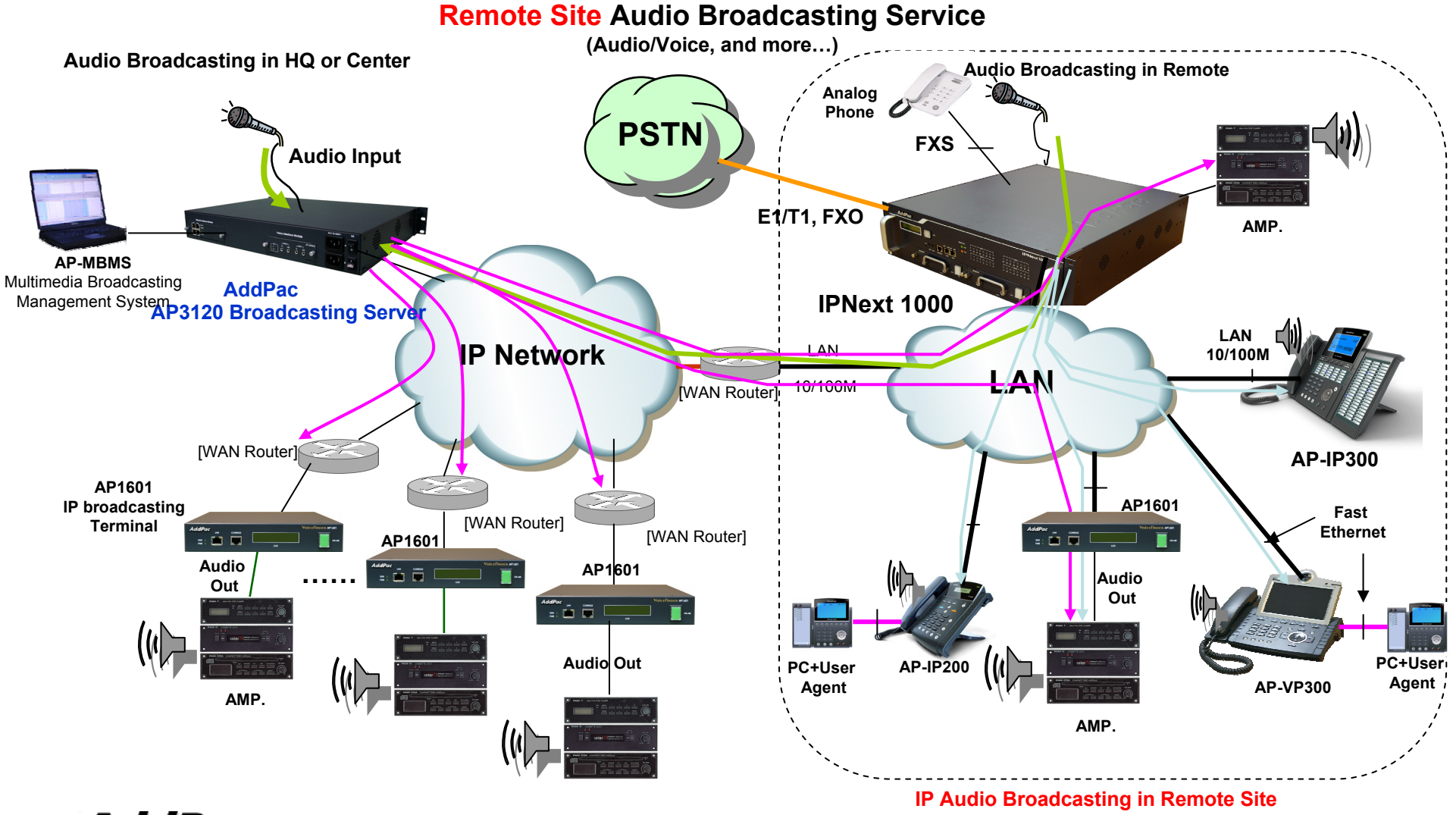
Standard IP-PBX Application

IPNext 1000 Next Generation IP-PBX



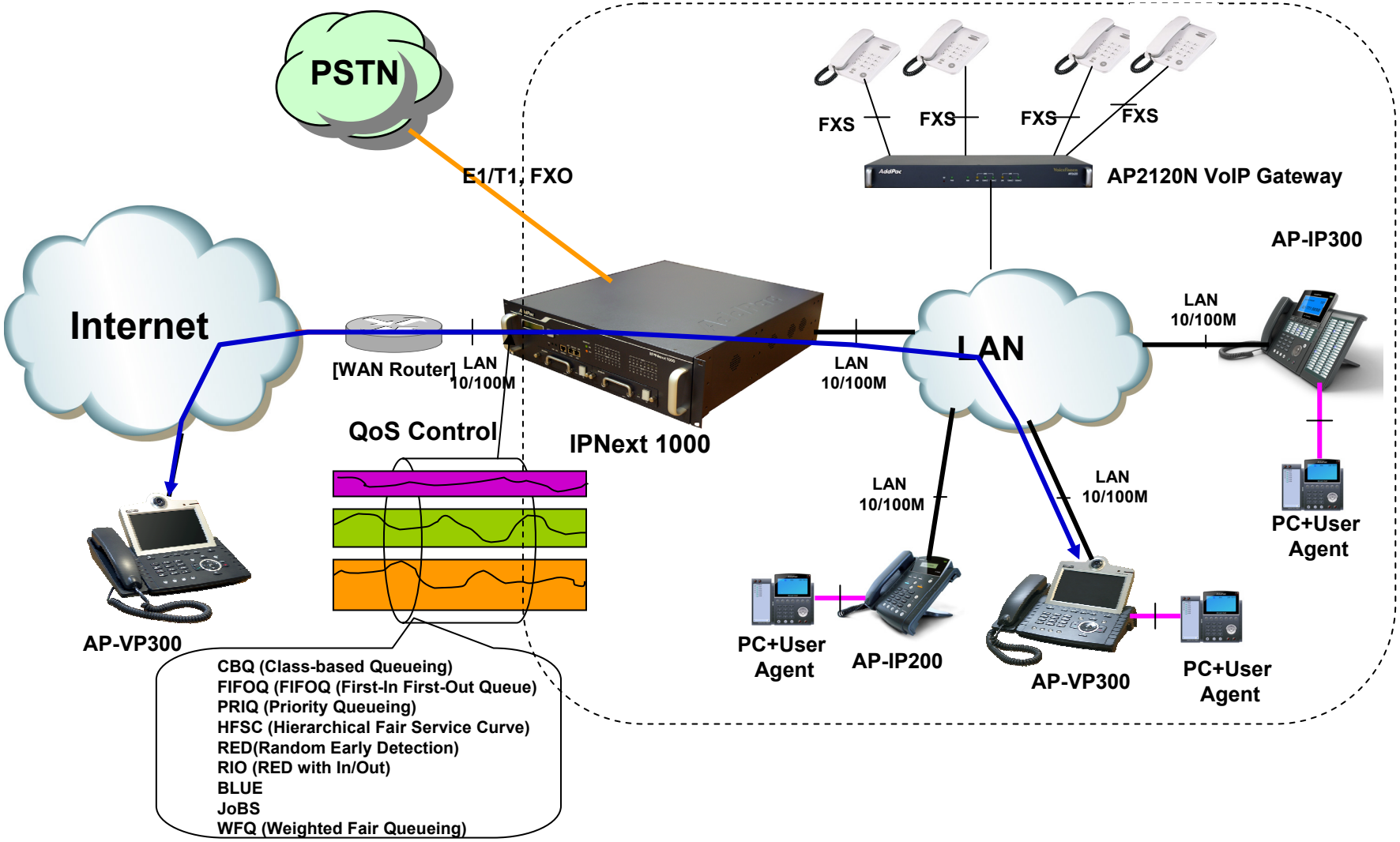
IP-PBX + IP Audio Broadcasting App.

IPNext 1000 Next Generation IP-PBX



IP-PBX + QoS, IPS* Application

IPNext 1000 Next Generation IP-PBX



Ordering Information

- **IPNext 1000 Next Generation IP-PBX Hardware**
  - IPNext 1000 IP-PBX Main Body
  - High-performance 64bit RISC CPU
  - 2-ports 10/100/1000Mbps Giga Ethernet and 1-port RS-232C Console
  - Including Network Cable Set & Ext. Power Supply, etc.
  - RAID 1 Hard Disk (2x 3.5 Inch IDE 300Giga, Extendable)
  - Dual Power Supply
  - Optional VoIP Modules
- **Built-in APOS Internetworking Software for IPNext 1000**
- **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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