



## AP-NR500 IP based Voice Recording Server

AP-NR500 IP based Voice Recording Server is a digital voice recording and processing equipment based on the advanced next-generation networks. This product together with IP end-point terminals such as AddPac Technology's VoIP gateways, IP phones can be used for IP based Voice Recording Solution. AP-NR500 is configured with 2-port 10/100/1000 Mbps Gigabit interfaces, a optional transcoding DSP module for multi-voice codec, One(1) IDE-type 3.5-inch HDD module slot.

The demand for embedded IP based Voice Recording Server that supports reliability and high quality voice service has been increasing as VoIP (Voice over IP), IP Telephony services such as the VoIP Gateway, IP Phone, Video Phone and IP-PBX are getting popular. AddPac Technology's IP based Voice Recording Solution is designed for voice recording solution based on All IP Next Generation Network. This solution consists of two parts, IP Voice Recording Server, IP end-point terminals. AddPac VoIP Gateways, IP Phones can be an IP end-point terminal for Voice Recording Solution. An IP Voice Recording Server such as AP-NR500 supports the several multi-port VoIP Gateway and IP phones. AP-NR500 supports the maximum thirty two (32) voice recording sessions, which means 64 voice recording channels (Caller, Callee). AP-NR500 records caller, callee's voice communication data separately to provide the options (independent voice file play each, mixed voice file play) for voice file replay.

AP-NR500 is a leading-edge network equipment where the high performance CPU module designed and developed by AddPac is combined with the AddPac Proprietary real-time OS (APOS) and embedded hardware to provide IP-based voice recording services. An advanced embedded RISC processor and a reliable embedded OS that support Gigabit Ethernet are used for this product to ensure better performance and efficiency. AP-NR500 provides one(1) IDE-type 3.5-inch HDD module slot and supports the Hot-Swap feature.

AP-NR500 IP based Voice Recording Server trans-codes voice data received from various IP end-points (for example, G.723.1 → G.711, G.729 → G.711, etc) using high performance DSPs, and save the voice file to Hard Disk. AP-NR500 supports the G.711, G.726 voice codec basically. For real-time voice recording file handling such as analyzing, replay, repeating, etc in MS-Window based Smart Digital Voice Recording Manager Program, voice files should be recorded in Voice Recording Server as G.711 PCM or G.726 ADPCM file format. To support low bit rate voice codec such as G.723.1, G.729, AP-NR500 IP Voice Recording Server provides the Voice Transcoding H/W module optionally. A Voice Transcoding Hardware Module supports maximum 64 channel concurrent Voice Transcoding.

## Product Highlights

- IP based Network Voice Recording Server
- High Performance Voice Recording & Streaming Solution
- Embedded system based on high performance RISC CPU
- Supports two(2) Gigabit Ethernet Interfaces
- One(1) 3.5 Inch IDE-type Hard Disk Interface Slot
- Optional DSP Module for Multi-Voice Codec Transcoding (G.711, G.726, G.729, G.723.1, etc)
  - Up to 32 Session (Caller, Callee)
- LCD Panel and Blue Lamp for device status monitoring
- Supports the USB 2.0 Host Mode interface
- Firmware Upgradeable Architecture
- Fault Tolerant and Scalable Architecture
- Inter-working with AddPac IP Telephony solution (VoIP Gateway, IP/Video Phones)
- Smart Digital Voice Recording Program (server/client) (MS-Window)
  - Call History Management
  - Media Play Management
  - Live Call List, Live Call Management
  - Local Backup
  - User Management
  - Server Status
  - Waveform Analyzing Function
  - Recording Source Management
  - Live Recording Board
- Support File Backup Manager Program

## AP-NR500 Application

- Remote Native English Teaching Solution (Voice Recording → Web → MP3)
- IP Telephony System Integration
- IP based Call Center System
- Medium and Large Scale Enterprise IP-PBX

## Hardware Specification

- RISC Microprocessor (CPU)
- Memory
  - Boot memory 512Kbyte Flash Memory
  - Flash memory 16Mbyte Flash Memory
  - Main Memory 256Mbyte SDRAM
  - HDD 3.5 Inch IDE HDD x 1  
Hot-Swap Module Type
- Ethernet Interface
  - Two(2) x 10/100/1000Mbps Gigabit Ethernet (RJ-45)
- Console Port
  - RS-232C 1-Port Console (RJ-45)
- System Status Display LCD
- DSP Interface (Option)
  - DSP Module for Transcoding
  - Up to 32 Session
  - Voice Codec : G.711, G.729, G.723.1 etc
- USB Interface
  - USB 2.0 Host Mode Interface

## Power & Operational environment

- Power Internal AC Power Supply
- Power Consumption 5V/10A, 12V/4A
- Operation Temperature 0°C ~ +45°C
- Storage Temperature -40°C ~ +85°C
- Humidity 5%~95%

## Dimensions

- Dimension (W x D x H) : 440 x 345 x 55(mm)
- Weight : 6Kg

## Smart Digital Voice Recording Service Features

- Call History Management
  - Search/Modify/Delete/Save
- Media Play Management
  - Play/Stop/Seek/Pause
- Live Call Management
- Live Call Monitoring
- Local Backup and Local Play
  - File Manager Support, PC HDD, DVD
- User Management
  - Registration/Modify/Delete/Search
- Server Status
  - CPU/Memory/HDD
- Event Monitoring
- Waveform Analyzing Function
- Recording Source Management
  - VoIP Gateway
  - IP Phone
  - Video Phone
  - Soft Phone
- Live Recording Board

## Smart File Backup Manager Service Features

- User Management for Login
- Recorded Call List Search
  - Search Filter
  - Call Information (Property)
- Configuration Management
  - Local Database Server
  - Ftp Information
  - Directory
- Server to Local Backup
- Periodical Backup

## Network Protocol & Service

- Data, Voice, Video and Security Support
- Standard Compliant IP Network Protocol

## Network Management

- Standard SNMP Agent ((MIB v2) Support
- Console, Telnet, Web Based Management
- Remote Download via FTP/TFTP

## Traffic QoS Control

- Traffic QoS Control Feature for Services
- Voice, Data, Video Prioritizing Control
- Various QoS Algorithm Support

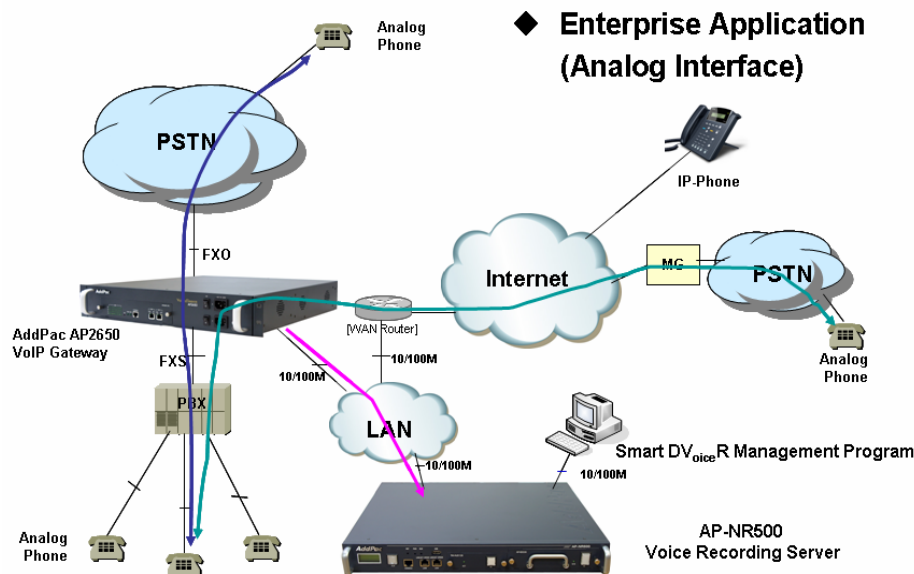
## Security Feature

- 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
- Password Authentication Protocol (PAP)
- Challenge Handshake Authentication Protocol (CHAP)

## Operation & Management

- Configuration Backup & Restore for APOS Managements
- Auto Upgrade via HTTP/HTTPS
- Debugging, System Auditing, and Diagnostics Support
- FTP/TFTP/Telnet/SSH Server and Client

## AP-NR500 Network Voice Recording Server



## Ordering Information

- AP-NR500 Voice Recording Server
  - Two(2) Gigabit Ethernet Port
  - One(1) Console Port
  - RISC CPU,
  - 16MB Flash,
  - 256Mbyte SDRAM
  - USB 2.0 Host Mode Interface
  - One(1) HDD Module
- CAB-LAN Ethernet Cable
- CAB-CON RS-232C Console Cable
- TIM-AUD64 32-Channel Voice Transcoder DSP Module (Option)