

# AP-NC3800™

## Multi-Service Video Codec

High-performance Network Surveillance Solution



**AddPac**

**AddPac Technology**

2011, Sales and Marketing

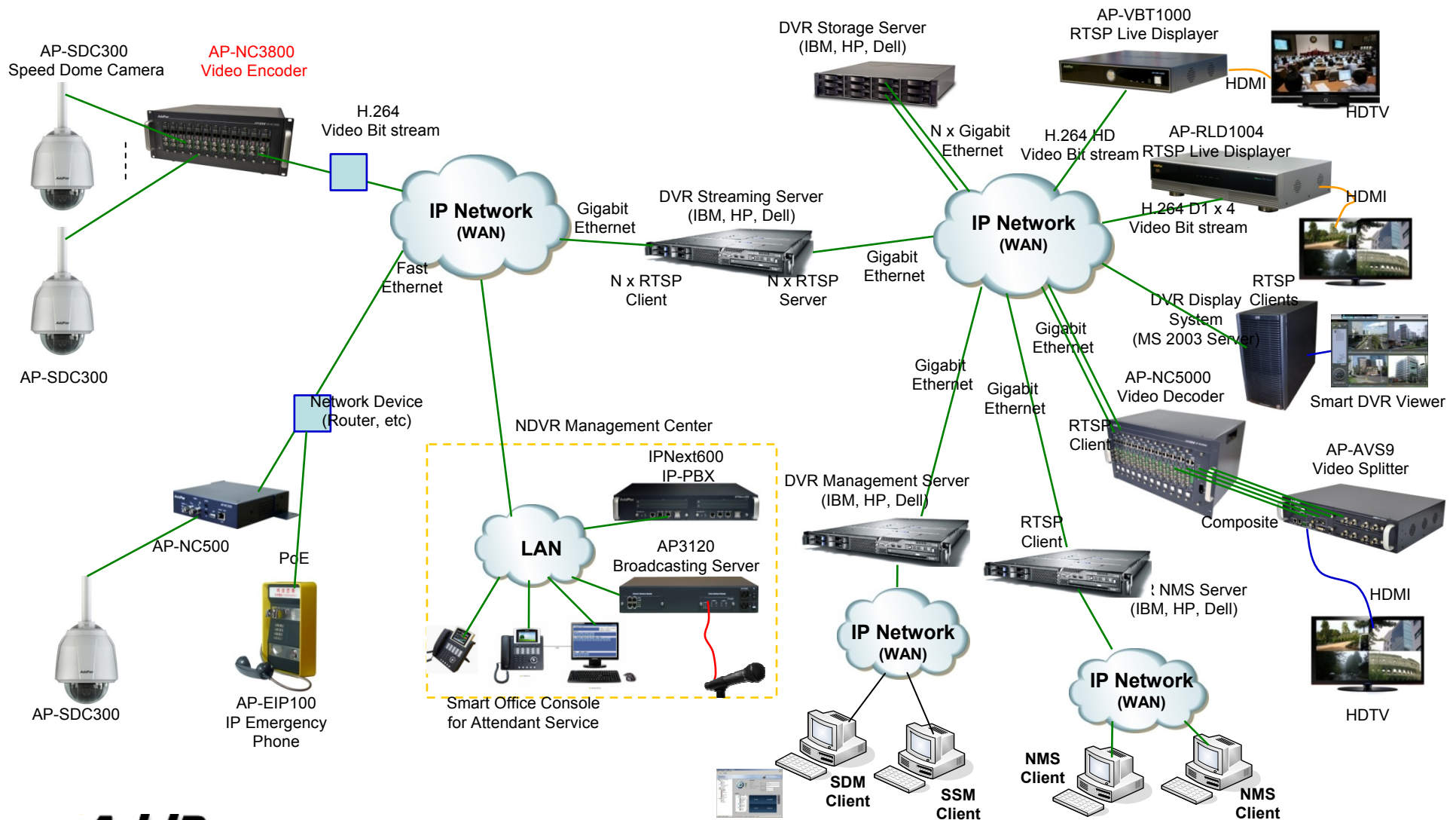
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# Network DVR Service Diagram

AP-NC3800 Video Codec



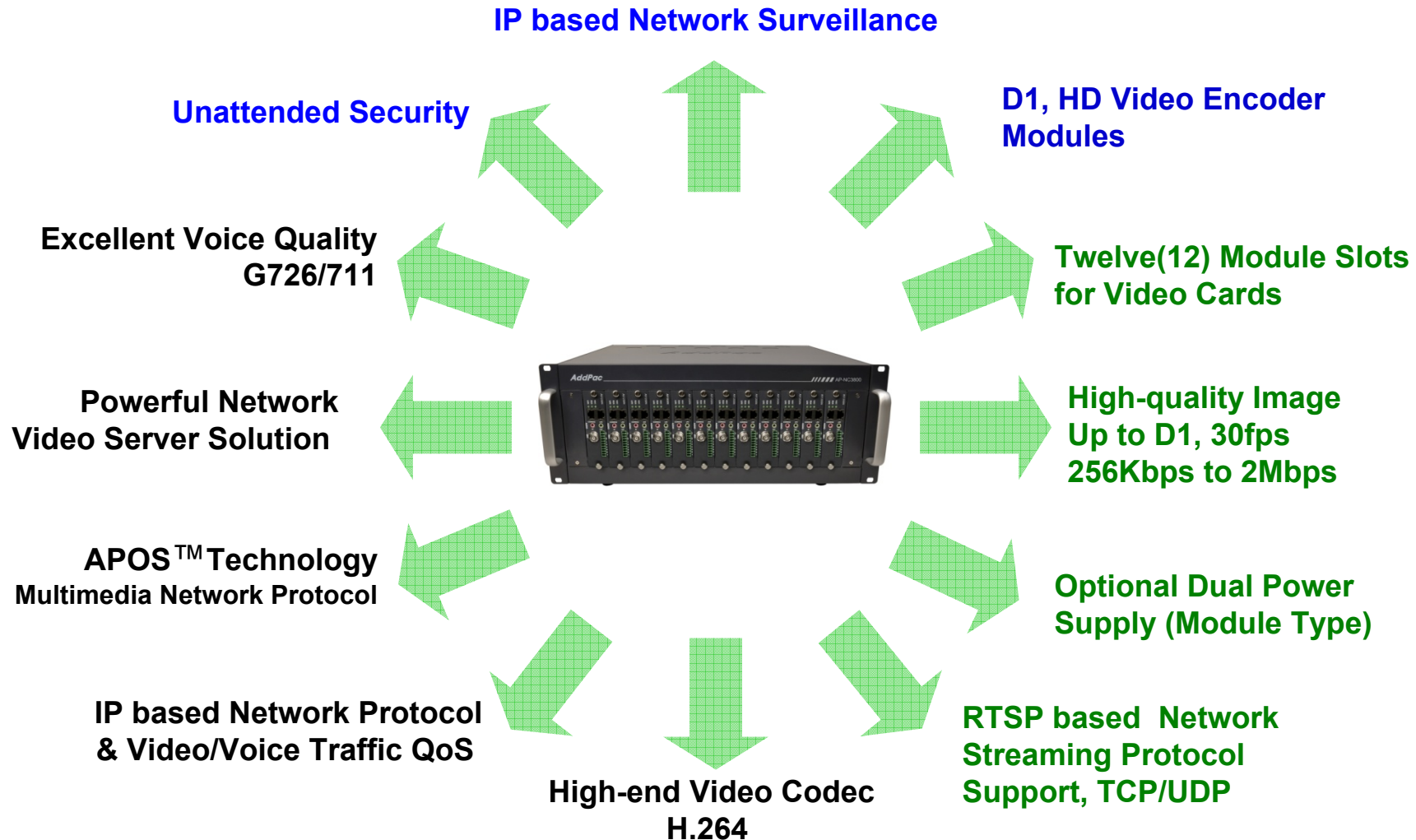
# Product Overview

## AP-NC3800 Video Codec

- IP based Audio/Video Encoding Solution
- 12 Module Slots for Video & Audio Modules
- D1 Video Encoder Modules (2CH, 1CH, etc)
- H.264 Dual Encoding Stream (D1, CIF)
- H.264 HP/MP/BP Video Codec
- IP based Network Surveillance Solution
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection
- Compact Chassis, Module Type Dual Power Supply

# Product Highlights

AP-NC3800 Video Codec



# Benefits and Features

## AP-NC3800 Video Codec

- High Quality Images up to 256kbps and 2Mbps
- Twelve(12) Module Slot for Video Module
- D1 Video Encoder Module (AV1200N, AV1500N,etc)
- High-performance Audio & Video Codec Support
  - H.264 Video Codec
  - Line IN/OUT : G.726, G.711 Audio Codec
- Up to 30 frame/sec, D1 Resolution (NTSC, PAL)
- IP Audio Announcement & Broadcasting
- IP based Network Protocol Support
- RTSP, RTP/RTCP, TCP/UDP Protocol Support
- Video Application
  - Network Surveillance Solution

# Hardware Specification

AP-NC3800 Video Codec

High-end  
**DSP**

- High-end Programmable DSP Hardware Architecture
- D1 Video Encoder Module (AV1200N)
  - Network Interface
    - One(1) 10/100/1000Mbps Gigabit Ethernet
    - One(1) Console Port
  - Powerful Video Input Interface
    - One(1) Channel Analog Video Input
  - High quality Audio and Voice Interface
    - One(1) Channel Stereo Audio Input/Output Connector
  - Camera Control Interface
    - One(1) RS-232C/RS422/RS485 Interface for External Camera Control
  - I/O Interface
    - 2 Alarm Input, 1 Relay

# Hardware Specification

AP-NC3800 Video Codec

High-end  
**DSP**

## Hardware Specification

Front Side View



AV1200N D1 Video Module



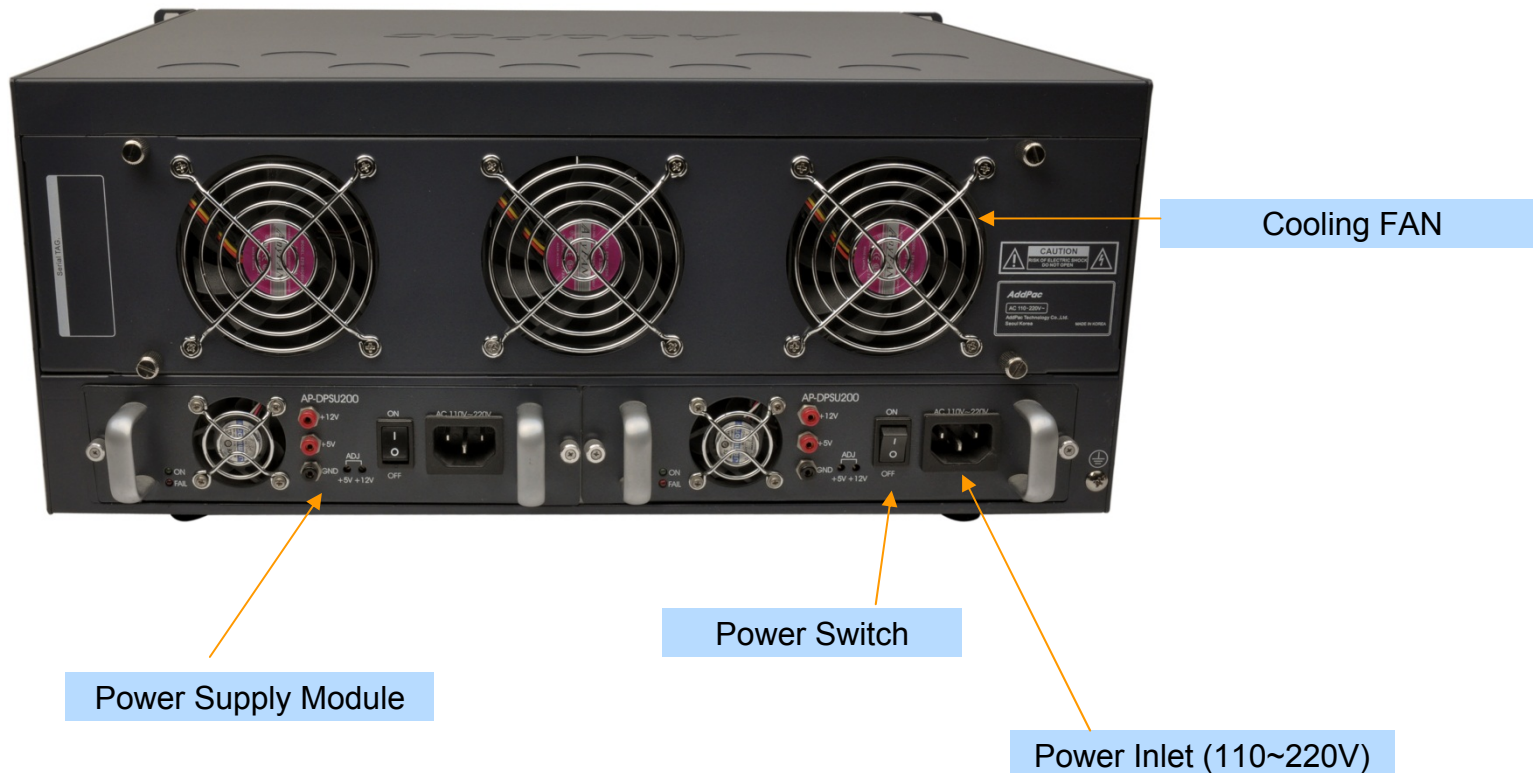
# Hardware Specification

AP-NC3800 Video Codec

High-end  
**DSP**

## Hardware Specification

Back Side View

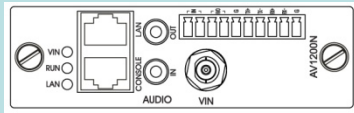
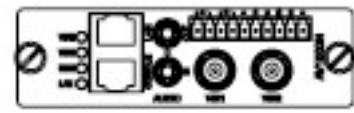


# Hardware Specification


AP-NC3800 Video Codec

High-end  
**DSP**

## Video Codec Modules

AV1200N	One(1) Channel D1 Video Encoder Module(H.264 D1, CIF Dual Encoding)	
AV1500N	Two(2) Channel D1 Video Encoder Module(H.264 D1, CIF Dual Encoding)	

## Audio Codec Modules

AA1000N	AMP built-in Audio Broadcasting Module (G.711, G.726, etc)	
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# Hardware Specification

AP-NC3800 Video Codec

High-end  
**DSP**

## Subtitle Generator Modules

AS1000N

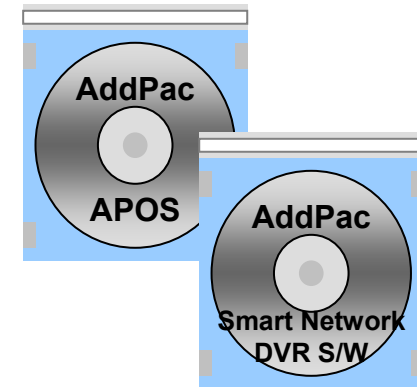
Analog Subtitle Generator Module  
(VIN, VOUT)



# Software Service

## AP-NC3800 Video Codec

- Built-in AddPac APOS Internetworking Software
  - Scalability, Functionality, and Stability Features
  - Video Traffic QoS Control
- Programmable Video, Audio, and Voice Services
  - Video Codes, Audio, and Voice Codec
- Firmware Upgradeable DSP Architecture
- Network Camera Function Support
- Industry Standard IP based Network Protocol Features
- Smart Network DVR Manager
  - Server and Client Architecture
  - Network Surveillance & Monitoring, Viewer Control, Storage Management, Login Management, and Remote System Management Support
- Smart NMS (Network Management System) for DVR Solution



# Video Service and Features (Ex:AV1200N)

## AP-NC3800 Video Codec

- Video Interface
  - Analog Interface(BNC) : NTSC, PAL
- High-performance Video Codec Support
  - H.264 HP/MP/BP Video Codec
- Powerful Image Resolution Support
  - CIF(352x288), D1: NSTC, PAL Mode
  - Additional Optional Video Resolution (QVGA, VGA, etc)
- Up to 30fps at 2Mbps with H.264 D1 Resolution
- Dual Bit-Stream Support
  - D1, CIF Dual Bit Stream /Channel
  - Additional Intelligent Feature
- 256Kbps to 2Mbps Operating Video Traffic Bandwidth
- Rate Control for Video Traffic QoS
  - Ensuring Optimized Quality
  - Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error

# Audio & Voice Service and Features

## AP-NC3800 Video Codec

- Audio & Voice Networking Interface
  - Audio Input/Output Port (Stereo Female Connector)
- IP based Audio Announcement & Broadcasting Support
- High-performance Audio & Voice Codec Support
  - Line IN/OUT : G.726, G.711 Audio Codec
- Enhanced QoS Management Features for Voice Traffics

# Network Service and Features

## AP-NC3800 Video Codec

- Network Managements
  - Standard SNMP Agent (MIB v2) Support
  - Remote Management using Console, Telnet
  - Web based Management using HTTP Server Interface
  - Command Line 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

## AP-NC3800 Video Codec

- 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



# AP-NC3800 Video Codec

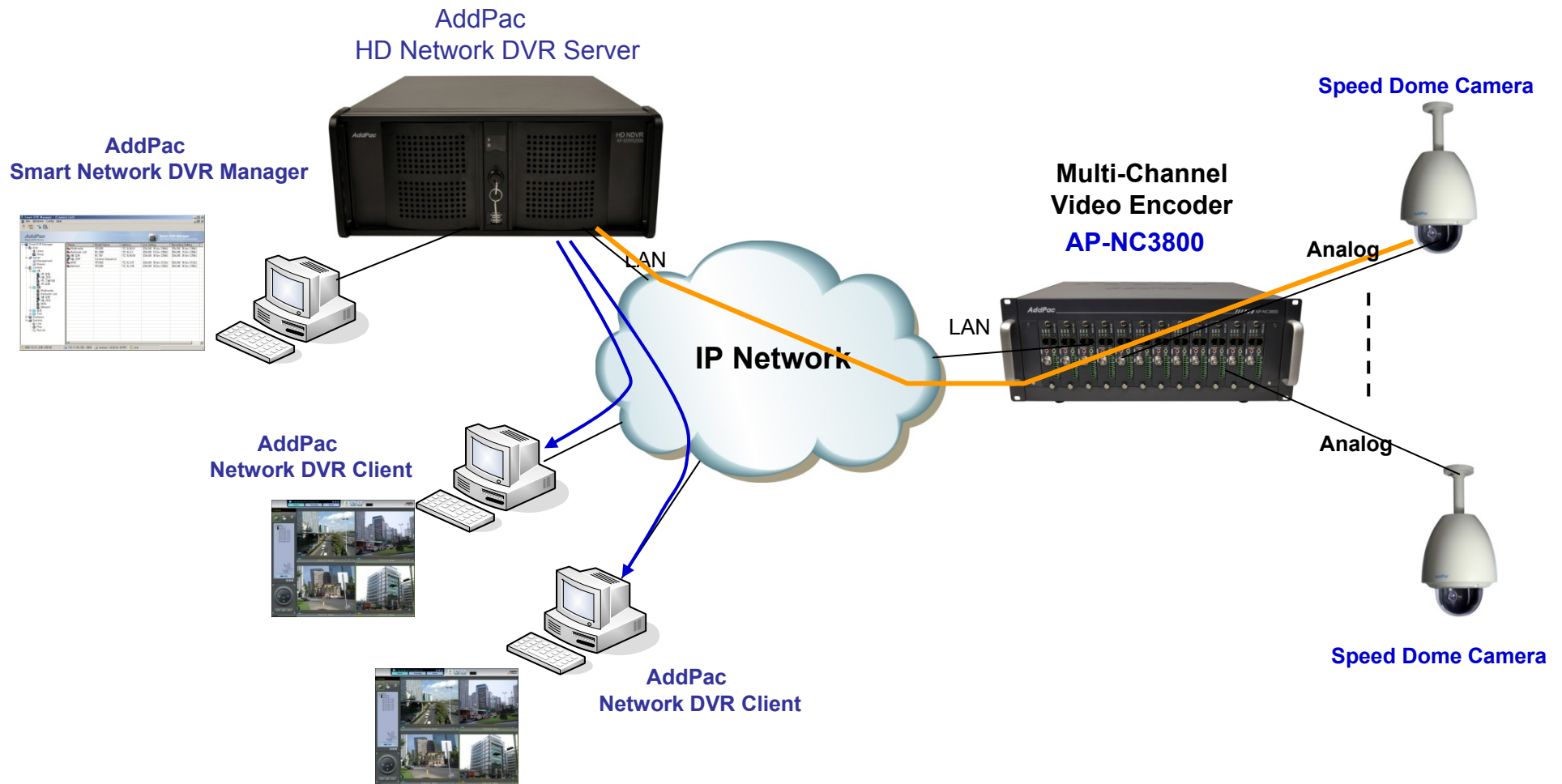
Application Area

- Network Surveillance
- IP Audio Broadcasting + Network Surveillance



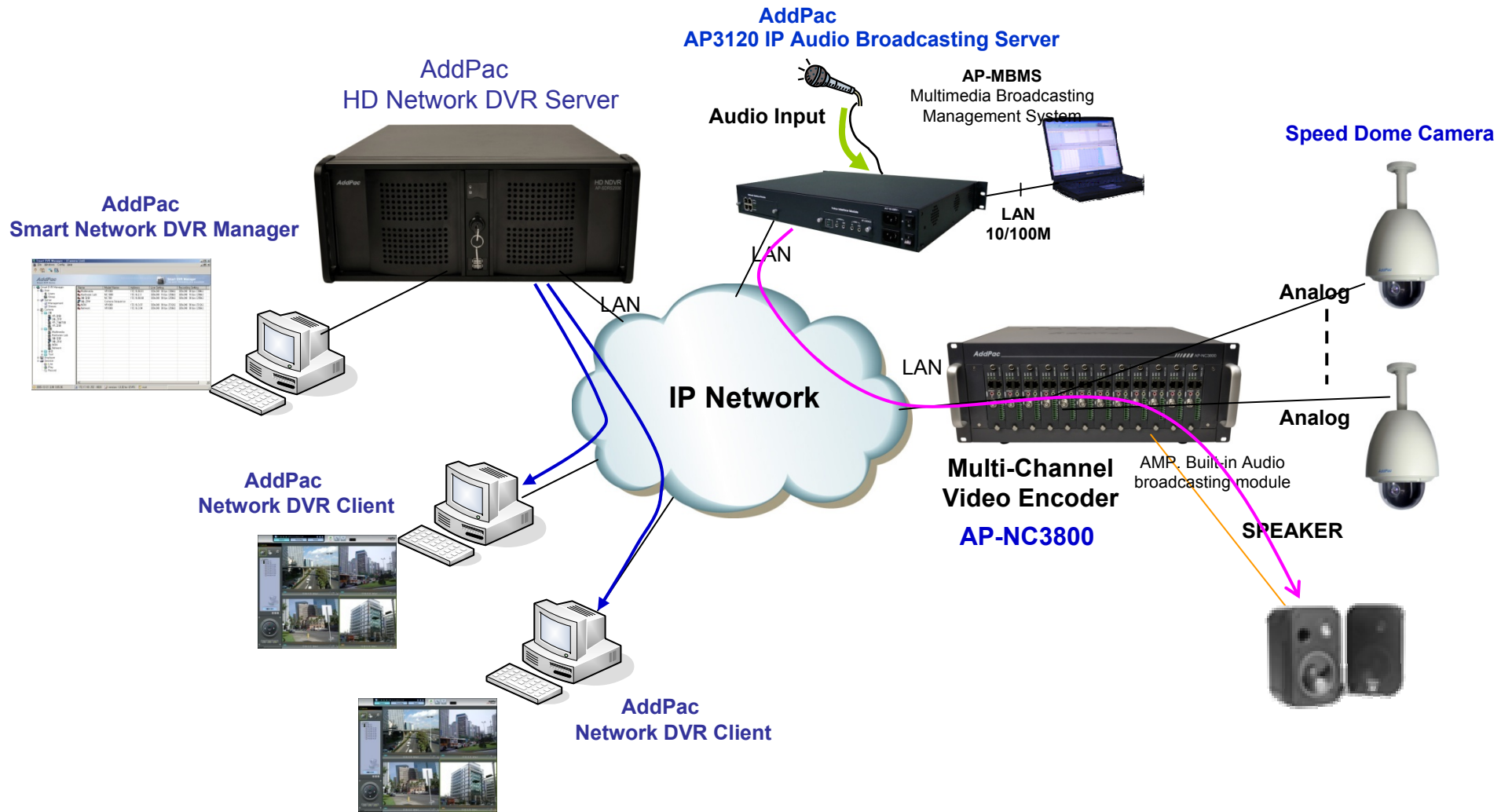
# Network Surveillance

## AP-NC3800 Video Codec



# IP Audio Broadcasting + Network Surveillance

AP-NC3800 Video Codec



# Ordering Information

- AP-NC3800 Video Codec Hardware Platform
  - Programmable RISC + DSP Architecture
  - Twelve(12) Video Module Slots
- AV1200N : One(1) D1 Video Encoder Module
- AV1500N : Two(2) D1 Video Encoder Module
- AA1000N : AMP. Built-in Audio Broadcasting Module
- AS1000N : Analog Subtitle Generator Module
- Built-in APOS Internetworking Software for AP-NC3800
- 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](http://www.addpac.com)



# Thank you!

**AddPac Technology Co., Ltd.**  
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