

AP-NC1200™ Video Codec

High-performance Network Surveillance Solution

Two(2) Channel D1 Video Encoder Module

AMP built-in Audio Broadcasting Module



AddPac

AddPac Technology

2010, Sales and Marketing

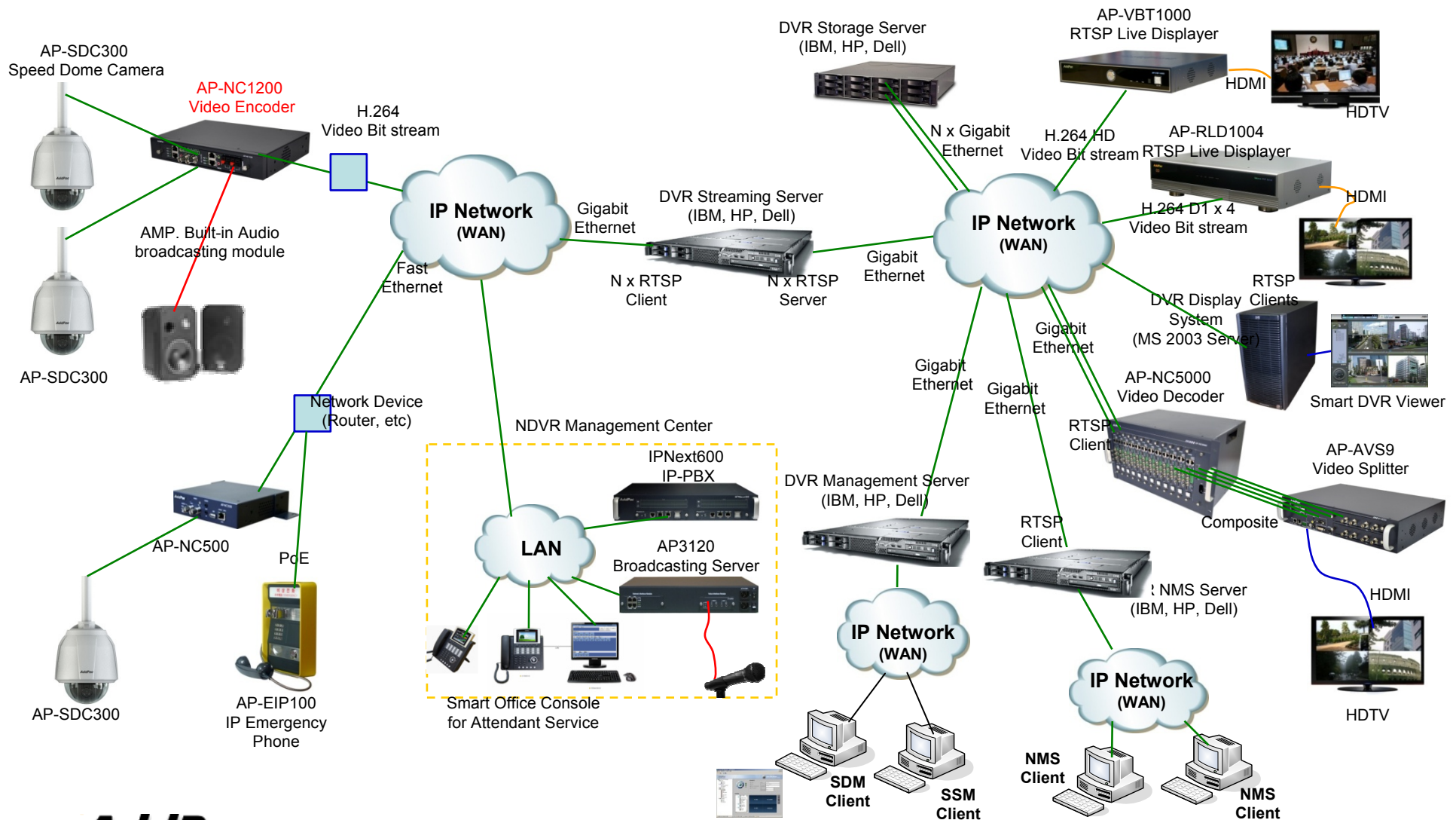
Contents

- Network DVR Service Diagram
- Product Overview
- Benefits and Features
- Hardware Specification
- Software Service
- Video Service & Features
- Audio & Voice Service and Features
- Network Service and Features
- Application Area
- Ordering Information



Network DVR Service Diagram

AP-NC1200 Video Codec



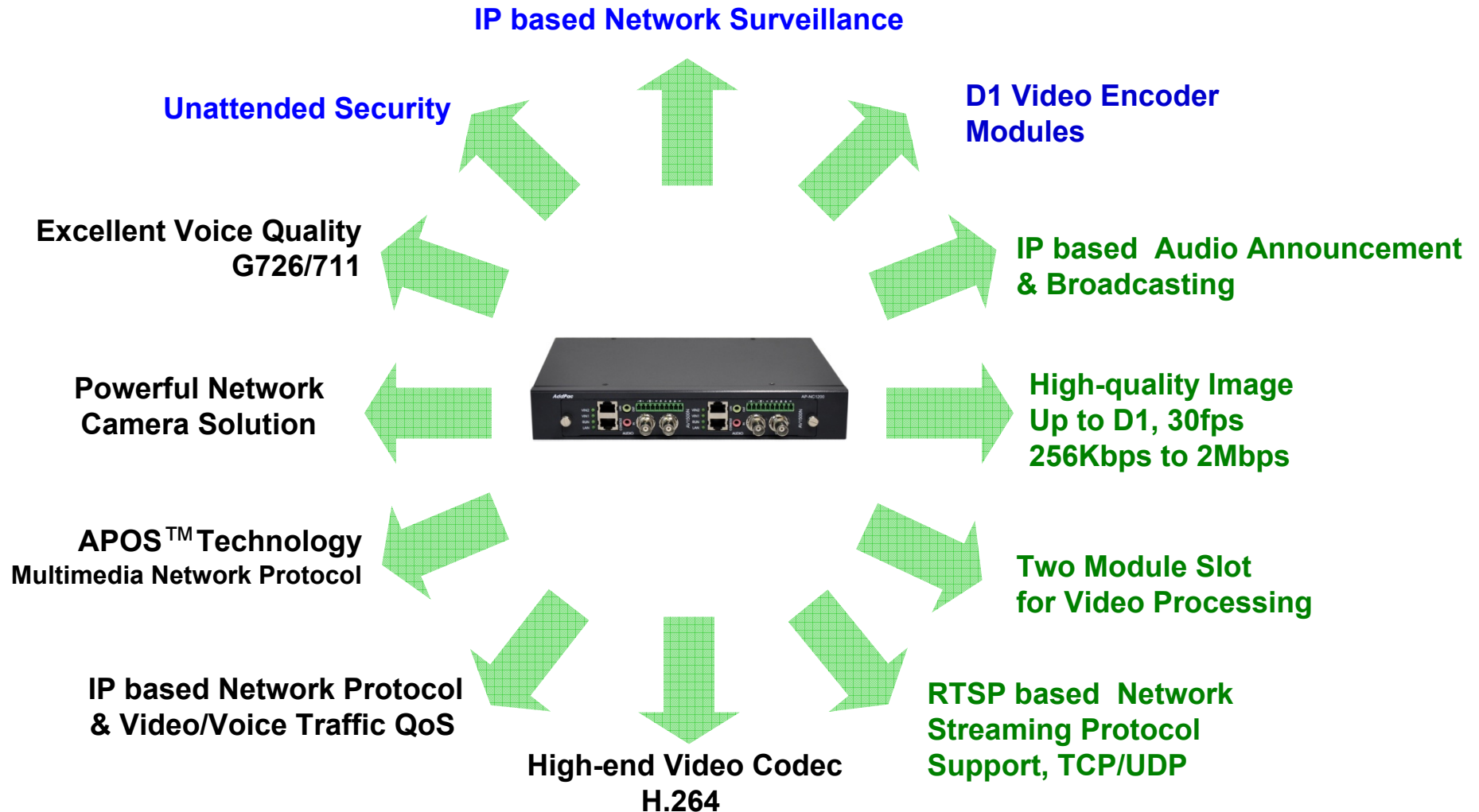
Product Overview

AP-NC1200 Video Codec

- IP based Audio/Video Encoding Solution
- Two Slot 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, DC External Power Supply

Product Highlights

AP-NC1200 Video Codec



Benefits and Features

AP-NC1200 Video Codec

- High Quality Images up to 64kbps and 4Mbps
- Two Module Slot for Video Module
- D1 Video Encoder Module (AV1500N)
- 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-NC1200 Video Codec

High-end
DSP

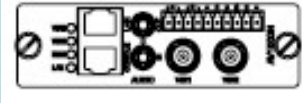
- High-end Programmable DSP Hardware Architecture
- D1 Video Encoder Module (AV1500N)
 - Network Interface
 - One(1) 10/100/1000Mbps Gigabit Ethernet
 - One(1) Console Port
 - Powerful Video Input Interface
 - Two(2) Channel Analog Video Input
 - High quality Audio and Voice Interface
 - One(1) Channel 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-NC1200 Video Codec

High-end
DSP

AP-NC1200 Video Codec Modules

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

AP-NC1200 Audio Codec Modules

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

Hardware Specification

AP-NC1200 Video Codec

High-end
DSP

AP-NC1200 Subtitle Generator Modules

AS1000N

Analog Subtitle Generator Module



Hardware Specification

AP-NC1200 Video Codec

High-end
DSP

Example : AV1500N Video Module
+ AV1500N Video Module (4channel D1 Encoder)

AP-NC1200 Front View



AV1500N Video Encoder Module

AA100N Video Encoder Module

Hardware Specification

AP-NC1200 Video Codec

High-end
DSP

Example : One(1) AV1500N Video Module
+ One(1) AA1000N AMP. Built-In Audio Broadcasting Module
(2channel D1 Encoder + Audio Broadcasting Module)

AP-NC1200 Front View



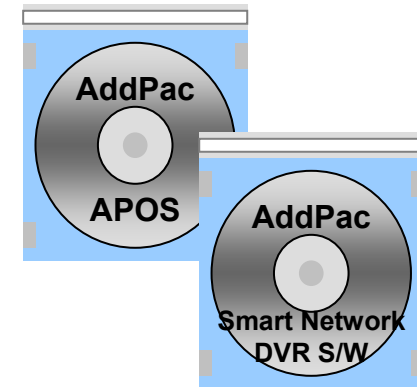
AV1500N Video Encoder Module

AA1000N AMP. Built-in Audio Broadcasting Module

Software Service

AP-NC1200 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

AP-NC1200 Video Codec

- Video Interface
 - Analog Interface(BNC) : NTSC, PAL
- High-performance Video Codec Support
 - H.264 HP/MP/BP
- 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-NC1200 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-NC1200 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-NC1200 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-NC1200 Video Codec

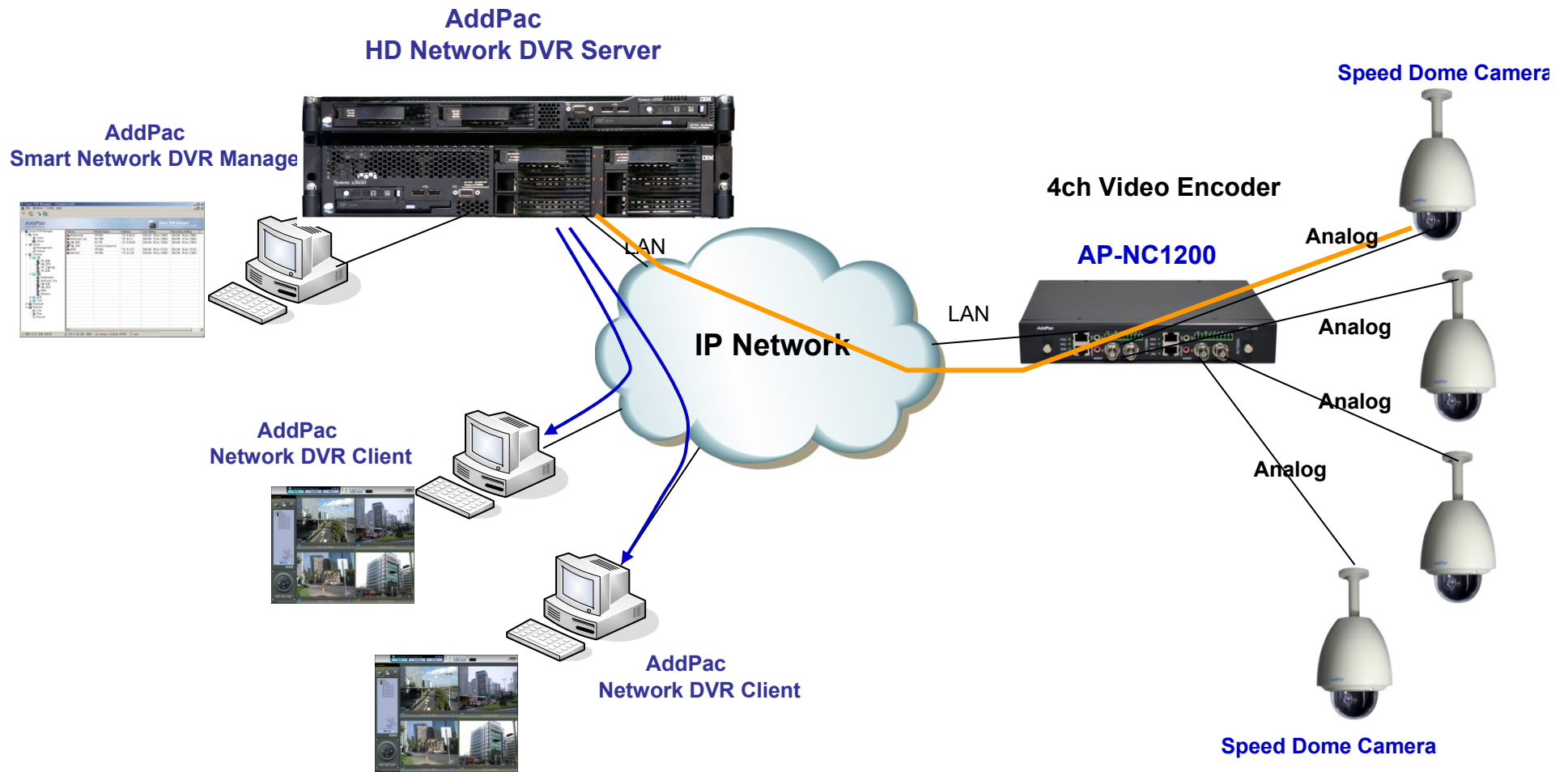
Application Area

- Network Surveillance
- IP Audio Broadcasting + Network Surveillance



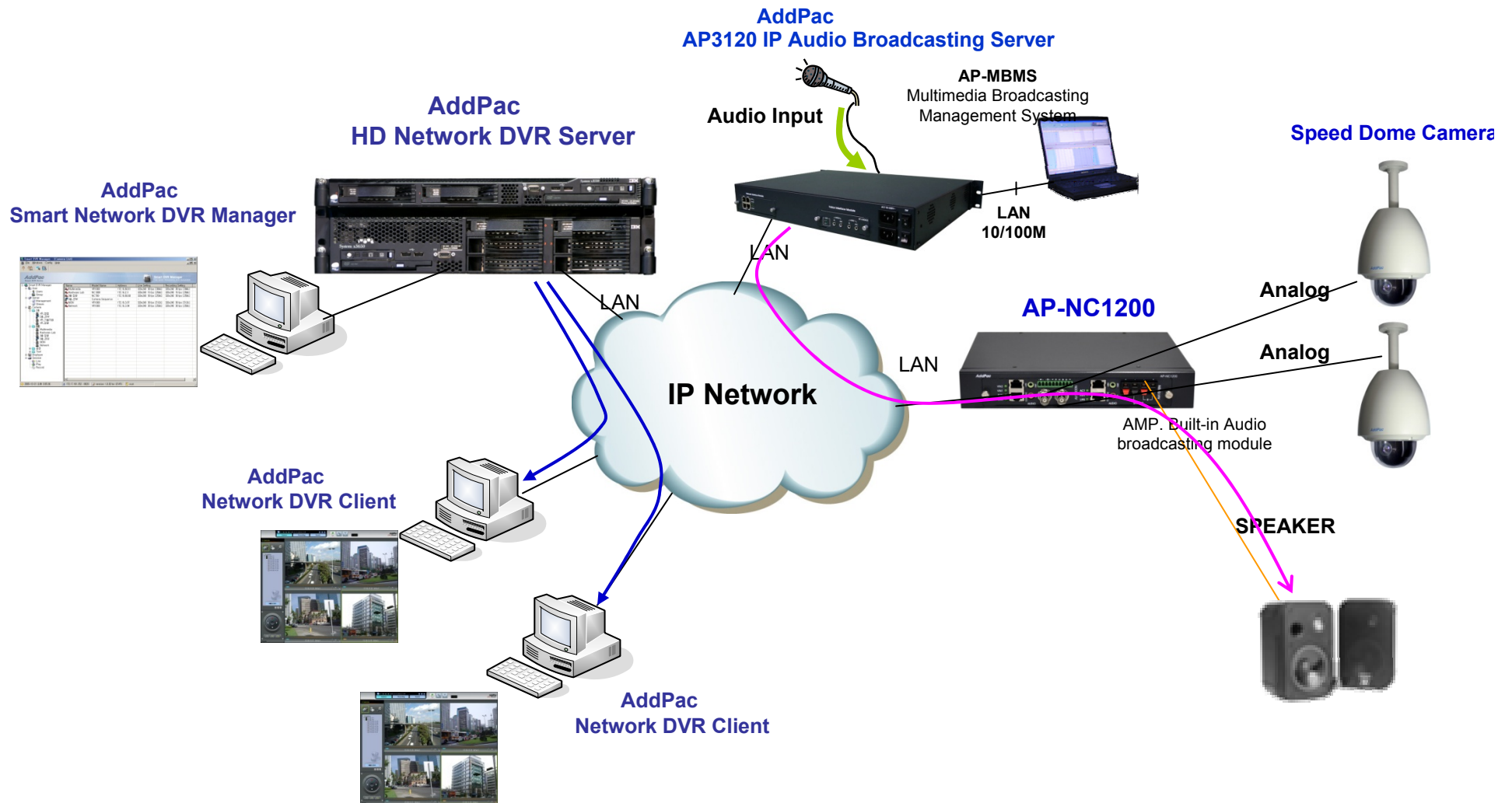
Network Surveillance

AP-NC1200 Video Codec



IP Audio Broadcasting + Network Surveillance

AP-NC1200 Video Codec



Ordering Information

- **AP-NC1200 Video Codec Hardware Platform**
 - Programmable RISC + DSP Architecture
 - Two(2) Video Module Slot
- **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-NC1200**
- **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