AP-VBS7000

Multi-Channel Full HD Video Broadcasting Server
Next Generation IP based HD Video Broadcasting Server Solution

Preliminary Product Overview
(Without notice, following described technical spec. can be changed)

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AddPac Technology

2010, Sales and Marketing

www.addpac.com

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AP-VBS7000 Multi-Channel HD Video Broadcasting Server

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Product Overview
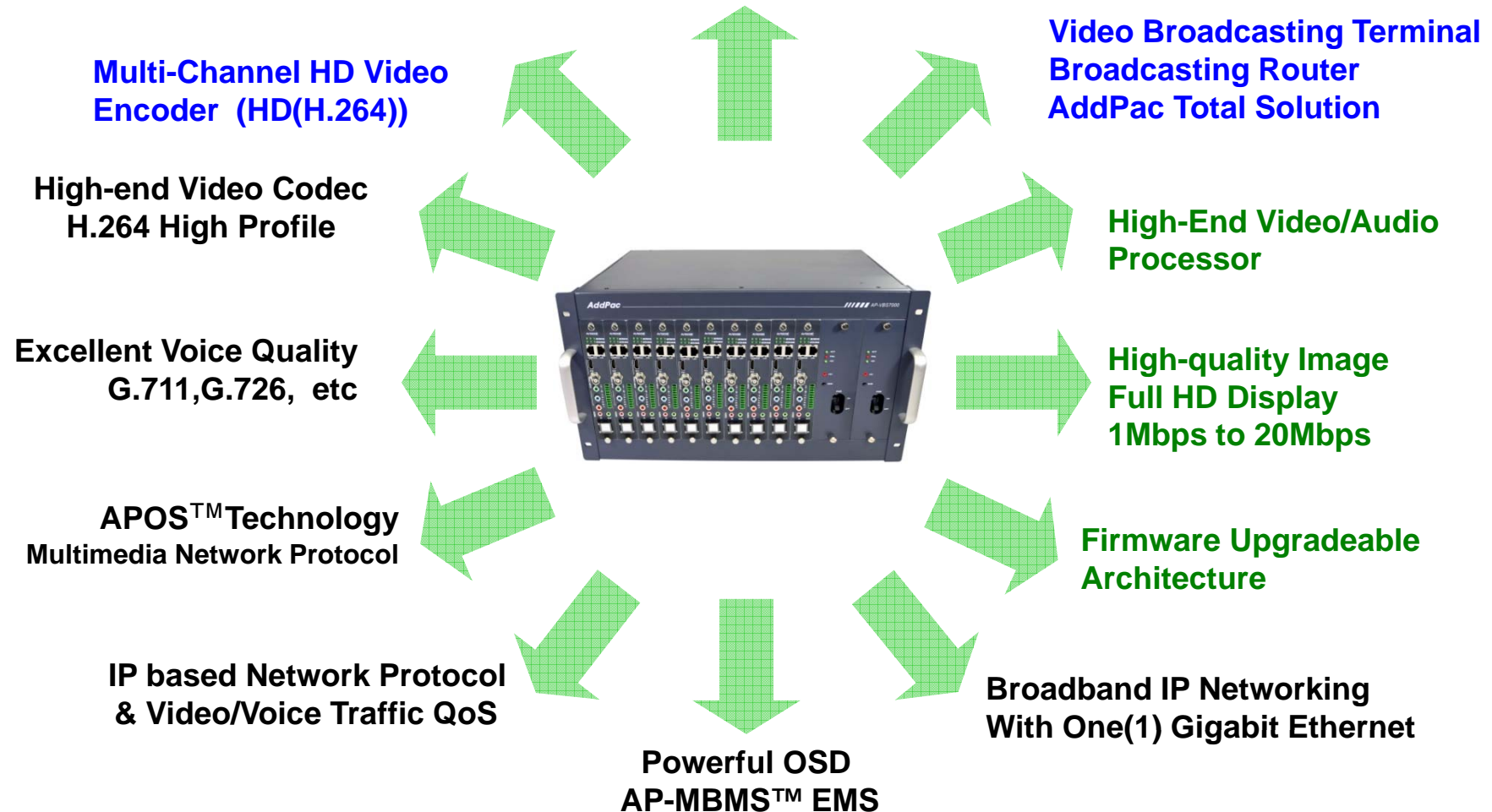
AP-VBS7000 Multi-Channel HD Video Broadcasting Server

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- Multi-Channel HD Video Broadcasting Solution
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Multimedia Broadcasting Management Software (Client/Server Architecture)

Product Highlights

AP-VBS7000 Multi-Channel HD Video Broadcasting Server
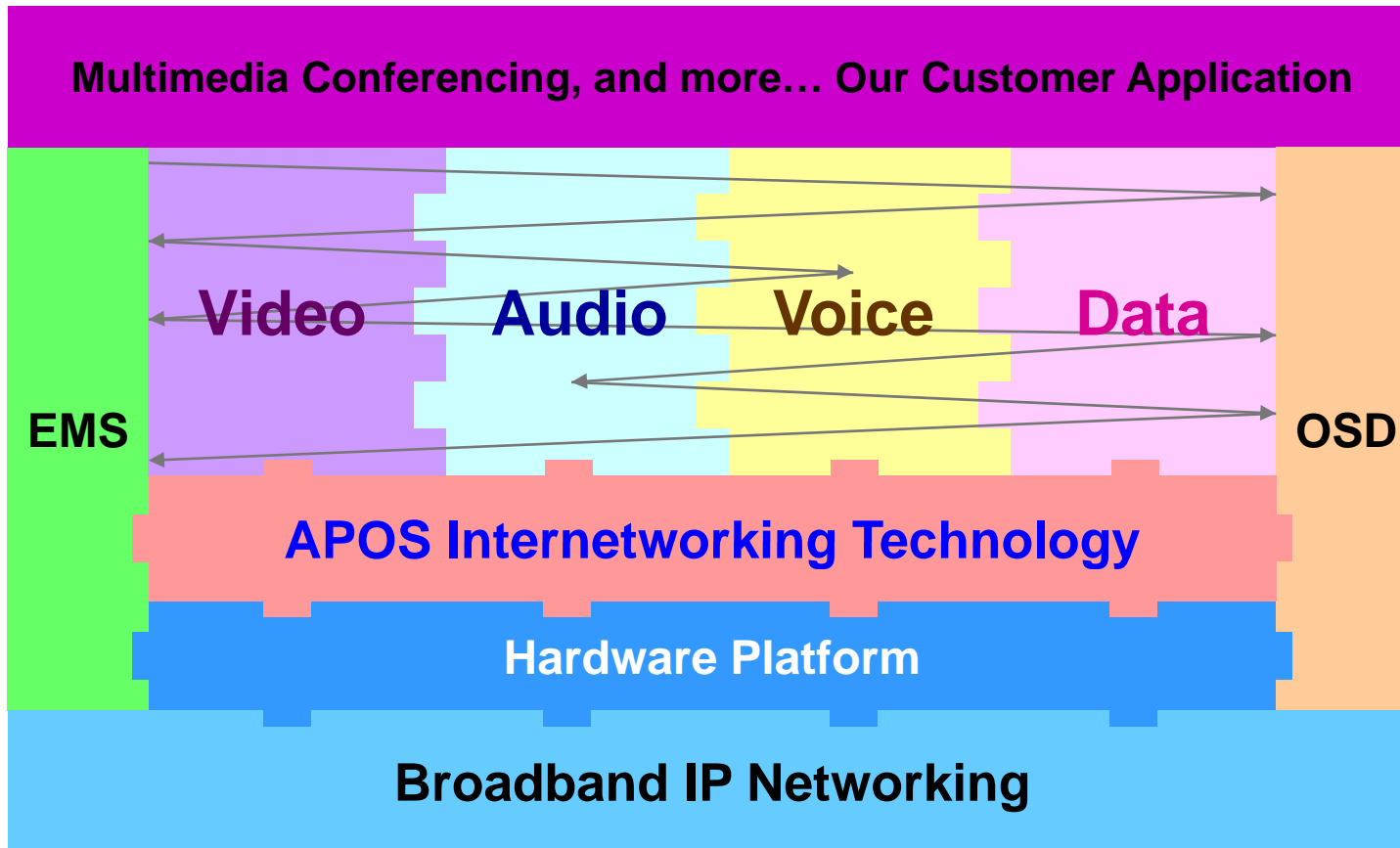
IP based HD Video Broadcasting Server

Multi-Channel HD Video Encoder (HD(H.264))

Video Broadcasting Terminal Broadcasting Router AddPac Total Solution

High-end Video Codec H.264 High Profile

High-End Video/Audio Processor

Excellent Voice Quality G.711,G.726, etc

High-quality Image Full HD Display 1Mbps to 20Mbps

APOS™Technology Multimedia Network Protocol

Firmware Upgradeable Architecture

IP based Network Protocol & Video/Voice Traffic QoS

Broadband IP Networking With One(1) Gigabit Ethernet

Powerful OSD AP-MBMS™ EMS

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Multimedia Service

AP-VBS7000 Multi-Channel HD Video Broadcasting Server

Multimedia Conferencing, and more… Our Customer Application

Video **Audio** **Voice** **Data**

EMS

OSD

APOS Internetworking Technology

Hardware Platform

Broadband IP Networking

• APOS : AddPac Internetworking Operating System
• OSD : On- Screen Display
• EMS : Element Management System

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Benefits and Features

- **High Quality Images up to 1Mbps and 20Mbps**
- **High-performance Audio & Video Codec Support**
  - H.264 High Profile Video Codec
  - Line IN : G.726, G.711, etc, Audio Codec
- **Multi-Channel HD Video Encoding (Up to 10 Modules)**
- **Up to 30 frame/sec, 1080i Full HD, 720P Resolution**
- **RTP based Real-Time HD Broadcasting Service**
- **IP based Network Protocol Support**
- **Video Application**
  - Audio & Video Broadcasting Solution

Hardware Specification

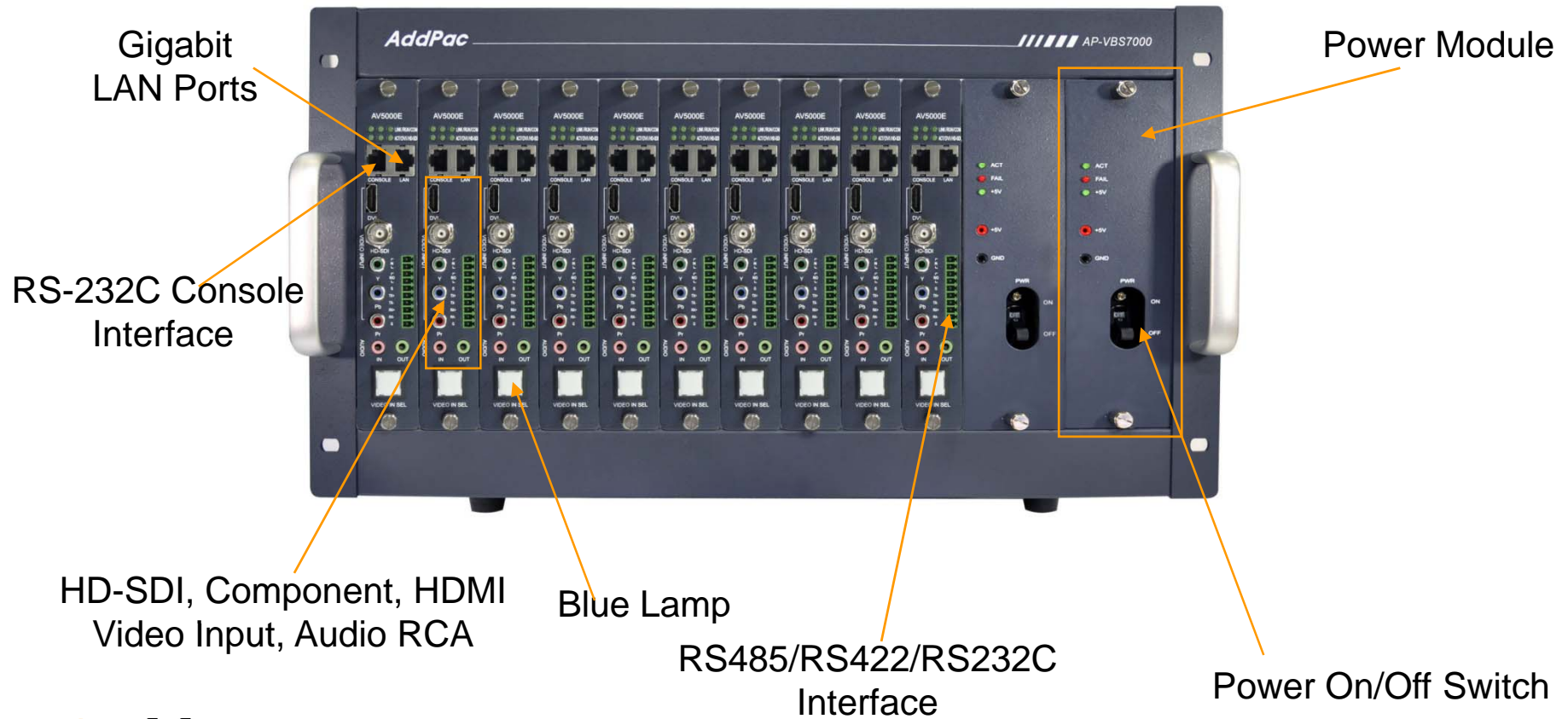AP-VBS7000 Multi-Channel HD Video Broadcasting Server

- **High-End Video Processors + RSIC Processor**

- **Main Chassis**
  - **Module based Dual Power Supply**
  - **Power On/Off Switch**
  - **Up to Ten(10) Video Encoder Module Slots**
  - **AV5000E-N2 HD Video Encoder Module**
    - **Network Interface**
      - One(1) 10/100/1000Mbps Gigabit Ethernet
      - One(1) RS-232C Console (RJ45)
      - RS485/RS422/RS232 Interface
    - **Video Interface (Input)**
      - Component
      - HD-SDI Interface
      - HDMI Interface
    - **Audio Interface (Input/Output)**
      - RCA Stereo Connector

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Hardware Specification

AP-VBS7000 Multi-Channel HD Video Broadcasting Server

AP-VBS7000 Front Side View

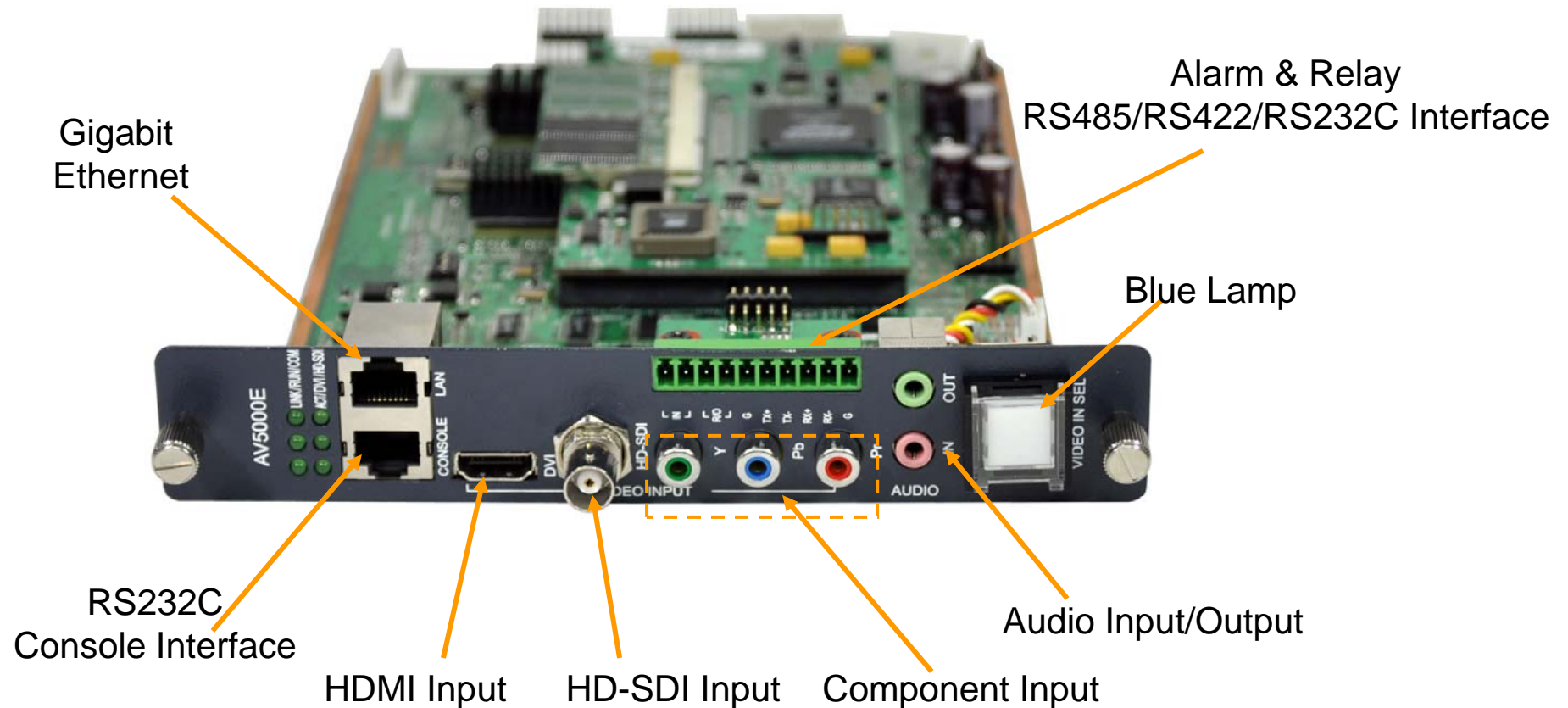Gigabit LAN Ports

Power Module

RS-232C Console Interface

HD-SDI, Component, HDMI Video Input, Audio RCA

Blue Lamp

RS485/RS422/RS232C Interface

Power On/Off Switch

Hardware Specification

AP-VBS7000 Back Side View

Cooling FAN

AC110~220V Free Voltage
Power Inlet

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AP5000E-N2 HD Video Encoder Module

Gigabit
Ethernet

Alarm & Relay
RS485/RS422/RS232C Interface

Blue Lamp

RS232C
Console Interface

Audio Input/Output

HDMI Input   HD-SDI Input   Component Input

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Software Service

- **Built-in AddPac APOS Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Video Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
  - Video Codec, Audio, and Voice Codec
- **Industry Standard IP based Network Protocol Features**
- **AP-MBMS** (Multi-media Broadcasting Management System) **Solution**
  - Server and Client Architecture
  - JAVA based EMS Solution
  - Broadcast Status Monitoring, Scheduling, Login Management, and Remote System Management Support
  - Intel Pentium Machine with MS Window Server OS and MS-SQL
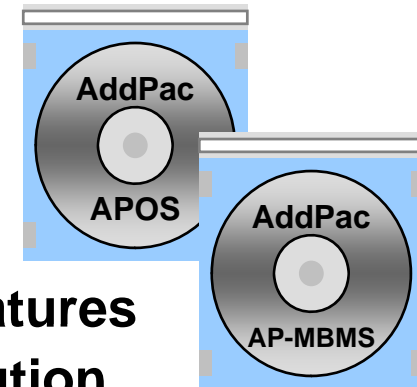
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Video Service and Features

- High-performance Video Codec Support
  - H.264 High Profile

- Powerful Image Resolution Support
  - 1080i(1920x1080), 720P(1280x720)

- Up to 30fps at Full HD-Resolution (H.264)

- 1Mbps to 20Mbps Operating Video Traffic Bandwidth

- Video Buffer Control for Video Traffic QoS
  - Ensuring Optimized Quality
  - Frame Rate Control with Limited Bandwidth

- Up to Ten(10) Video Channel Support

- HDMI, HD-SDI, Component Video Interface

- RTP/UDP based Real-time Video Broadcasting Service

AP-VBS7000 HD Video Broadcasting Server

Application Area

- IP based Audio Real-time Broadcasting
- IP based Audio/Video Real-time HD Broadcasting
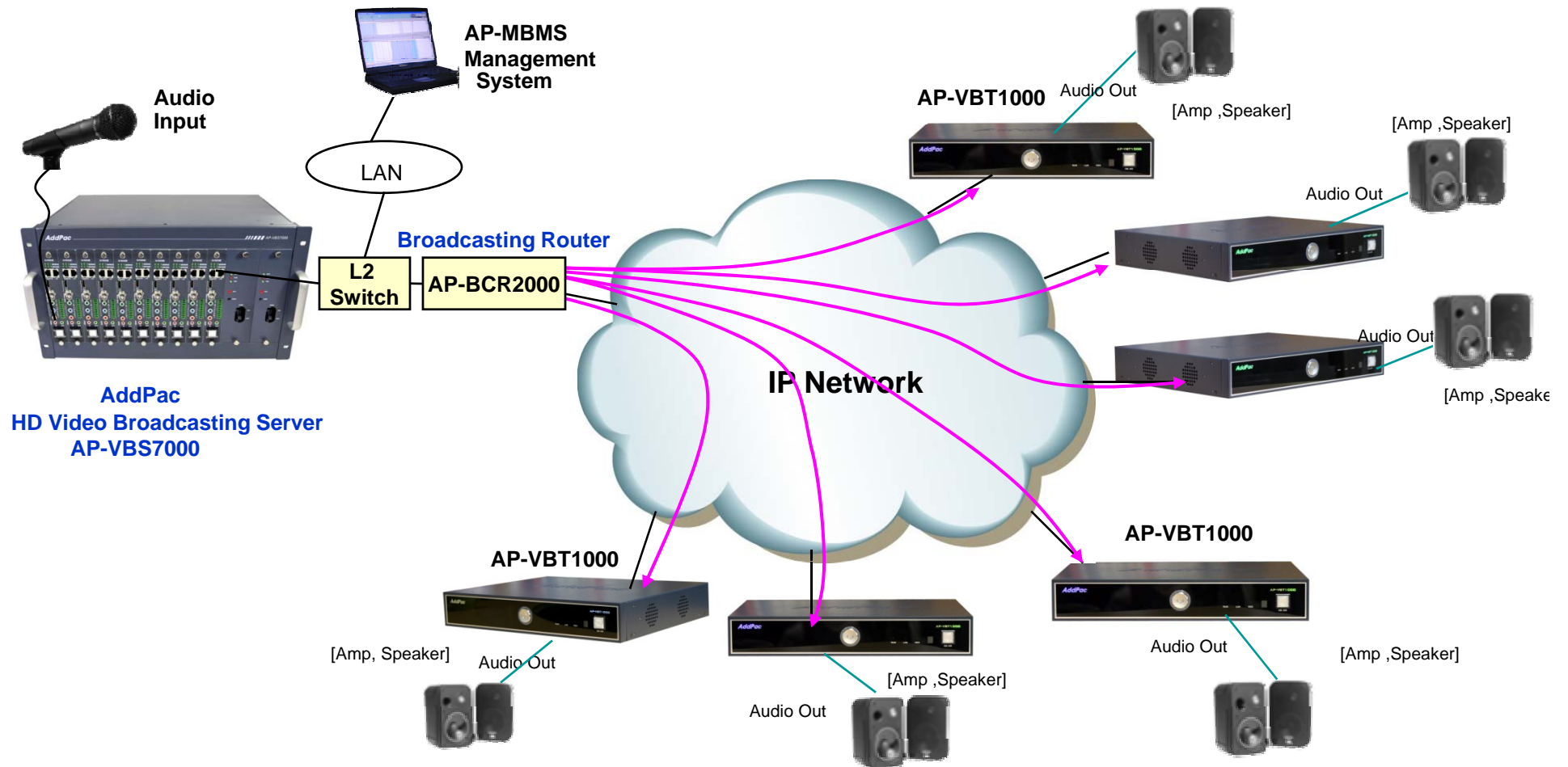
AP-VBS7000 Multi-Channel HD
Video Broadcasting Server

AP-VBT1000 HD Video Terminal

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Audio Real-time Broadcasting

AP-VBS7000 Multi-Channel HD Video Broadcasting Server

Audio Broadcasting Service via IP Network

AP-MBMS
Management
System

Audio
Input

LAN

Broadcasting Router

L2
Switch

AP-BCR2000

AddPac
HD Video Broadcasting Server
AP-VBS7000

IP Network

AP-VBT1000 Audio Out

[Amp ,Speaker]

[Amp ,Speaker]

Audio Out

Audio Out

[Amp ,Speaker]

AP-VBT1000

[Amp, Speaker] Audio Out

[Amp ,Speaker]

Audio Out

AP-VBT1000

Audio Out

[Amp ,Speaker]

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Audio/Video Real-time Broadcasting

AP-VBS7000 Multi-Channel HD Video Broadcasting Server

A/V Input

Audio and Voice Broadcasting Service via Unicasting IP Network
(Video, Audio/Voice, and more…)

AP-MBMS Management System

LAN

L2 Switch

AP-BCR2000

AP-VBS7000

Broadcasting Router

IP Network

Area 1

AP-VBT1000

A/V Out

Area 2
Broadcasting Router

AP-BCR2000

IP Network

AP-VBT1000

A/V Out

A/V Out

Area 3
Broadcasting Router

AP-BCR2000

IP Network

AP-VBT1000

A/V Out

A/V Out

Area N
Broadcasting Router

AP-BCR2000

……

AP-VBT1000

IP Network

A/V Out

A/V Out
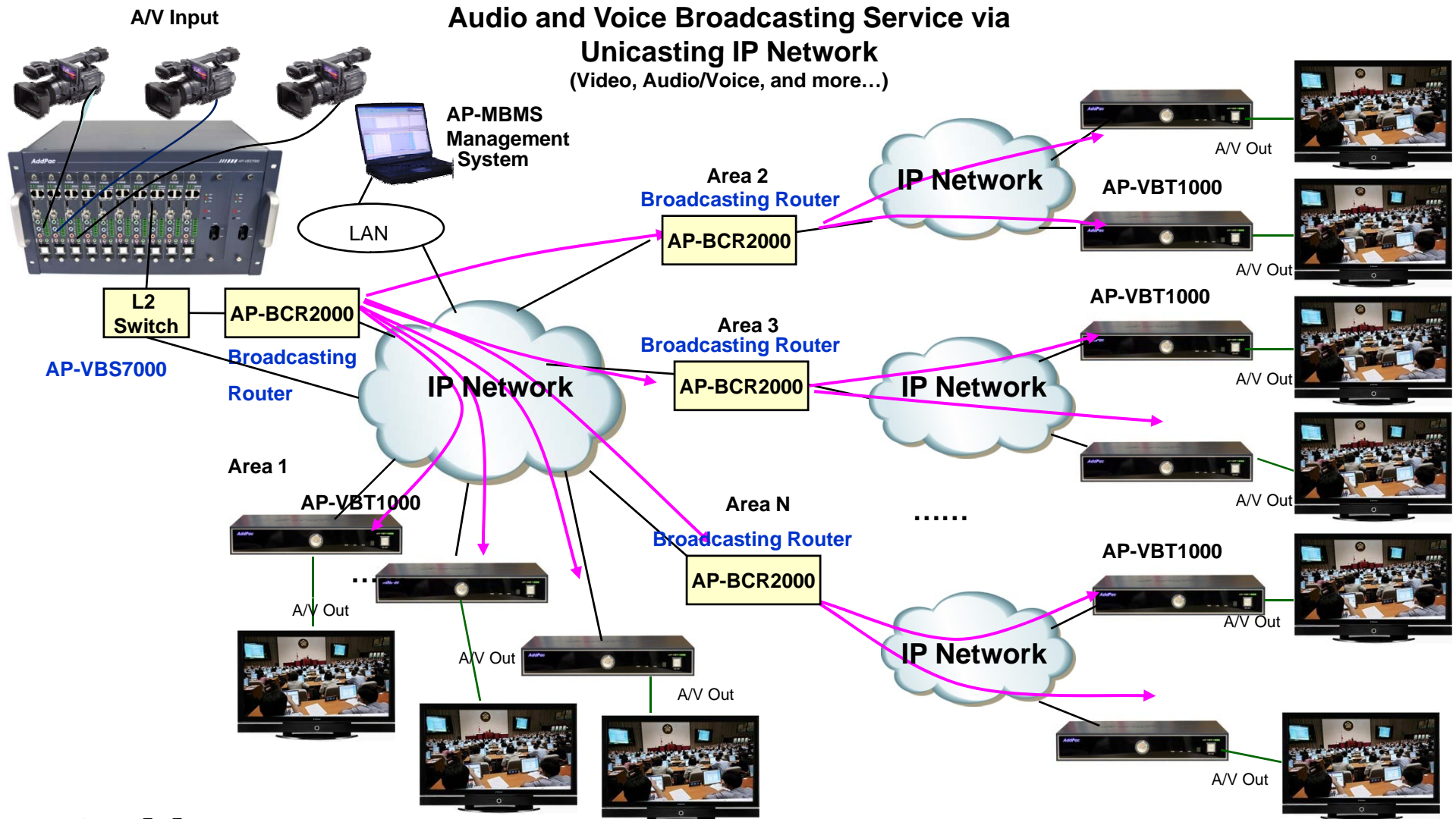
HD IP Broadcasting Solution
AP-VBS7000 Multi-Channel HD Video Broadcasting Server

- Full HD IP Video Broadcasting Server : AP-VBS7000
- HD IP Video Broadcasting Server : AP-VBS5000
- Audio/Video Broadcasting Manager : AP-MBMS
- IP Broadcasting Router : AP-BCR2000
- HD Video Broadcasting Terminal : AP-VBT1000
- Video Broadcasting Monitoring Terminal: AP-VP500
- Video Broadcasting Terminals : AddPac Video Phones
- Network Service Diagram

AP-BCR2000

AP-VBS7000

AP-VBS5000

AP-VBT1000

AP-VP500

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HD IP Broadcasting Server Comparison
AP-VBS7000 Multi-Channel HD Video Broadcasting Server

	AP-VBS7000	AP-VBS5000
Video Codec	H.264 High Profile	H.264 Base Profile, MPEG4
Video Resolution	1080i Full HD, 720P HD	H.264 : 720P HD MPEG4 : VGA, QVGA
Video Input Interface	Component, HD-SDI, HDMI	Component, HD-SDI, RCA, S-Video, RGB
Audio Interface	RCA Stereo Interface	RCA Stereo Interface
Channel Number	Up to Ten(10) Video Input Support	Two(2) Video Input Support
Video Terminal	AP-VBT1000	AP-VBT1000, AddPac Video Phones

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Ordering Information

- **AP-VBS7000 HD Video Broadcasting Server**
  - AP-VBS7000 HD Video Broadcasting Server Main Chassis
  - AV5000E-N2 Video Module : Option
  - One(1) Power Module
  - Dual Power Module : Option
  - Network Cable Set & Power Supply Cable, etc.
- **Built-in APOS Internetworking Software for AP-VBS7000**
- **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

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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

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