



AP-VBS5000

HD Video Broadcasting Server

Next Generation IP based HD Video Broadcasting Server Solution

Preliminary Product Overview



AddPac

AddPac Technology

2008, Sales and Marketing

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Product Overview

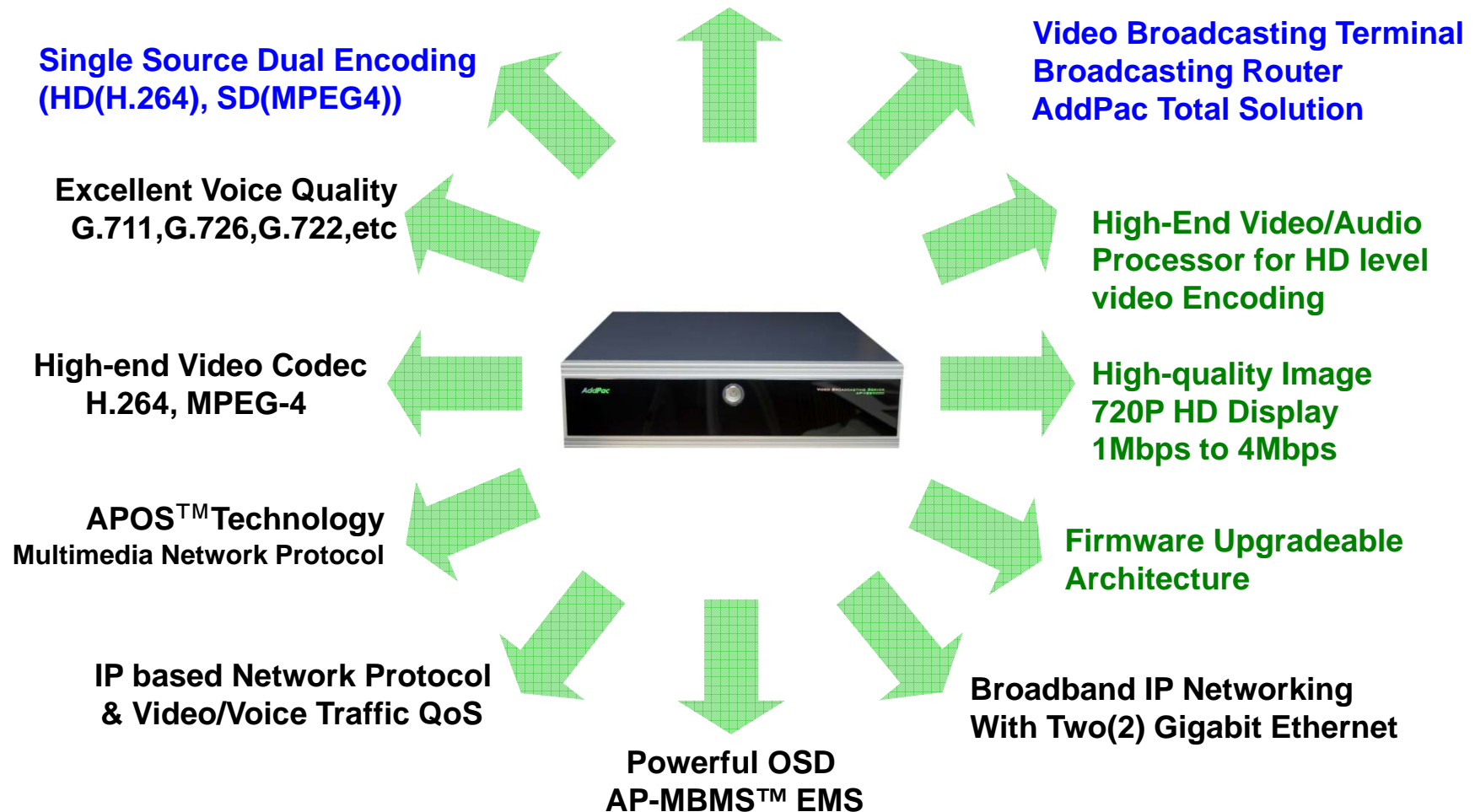
AP-VBS5000 HD Video Broadcasting Server

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- High Performance Non-Real-time Scheduled 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-VBS5000 HD Video Broadcasting Server

IP based HD Video Broadcasting Server

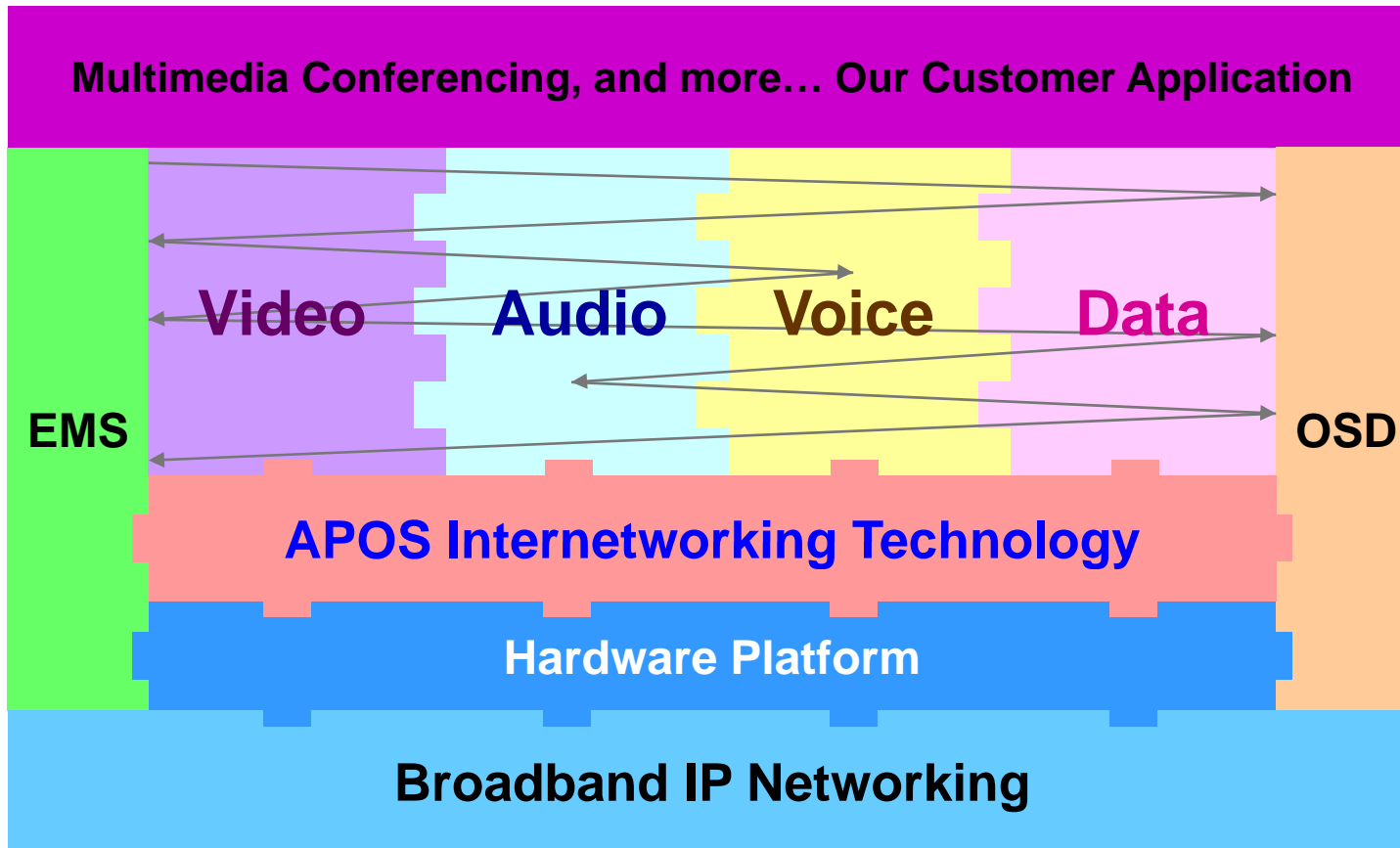


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Multimedia Service

AP-VBS5000 HD Video Broadcasting Server



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

Benefits and Features

AP-VBS5000 HD Video Broadcasting Server

- **High Quality Images up to 1Mbps and 4Mbps**
- **High-performance Audio & Video Codec Support**
 - H.264, MPEG-4 Video Codec
 - Line IN : G.726, G.711, etc, Audio Codec
- **Single Source Dual Video Encoding Scheme for HD(H.264), SD (MPEG4) Broadcasting Terminals**
- **Up to 30 frame/sec, 1280x720 HD Resolution**
- **RTP based Real-Time HD Broadcasting Service**
- **IP based Network Protocol Support**
- **Video Application**
 - Audio & Video Broadcasting Solution

Hardware Specification

AP-VBS5000 HD Video Broadcasting Server

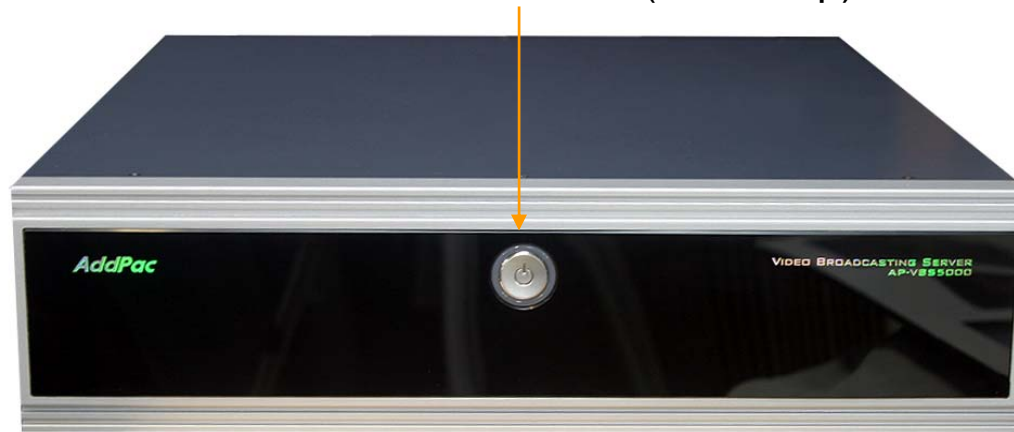
High-end
Host
Processor

- **High-End Host Processor + High Performance DSP**
- **Main Chassis**
 - **Power On/Off Switch**
 - **Network Interface**
 - Two(2) 10/100/1000Mbps Gigabit Ethernet
 - One(1) RS-232C Console (RJ45)
 - Two(2) PTZ RS-232C Ports (Channel #0,#1)
 - **Video Interface (Input)**
 - RCA Composite (CH#0, CH#1)
 - S-Video(CH#0, CH#1)
 - Component (CH#0, CH#1)
 - RGB Interface (CH#0, CH#1)
 - HD-SDI Interface (CH#0, CH#1)
 - **Audio Interface (Input)**
 - RCA Stereo Connector (CH#0, CH#1)

Hardware Specification

AP-VBS5000 HD Video Broadcasting Server

Power On/Off Switch (blue lamp)



CH #0 A/V Output Block
(HD-SDI, RGB, Component, S-Video,
RCA, Audio RCA)

RS-232C PTZ Controller
for CH #0

CH #1 A/V Output Block



Gigabit
LAN Ports

Console
Interface

Free Voltage
Power Inlet

Power On/Off Switch

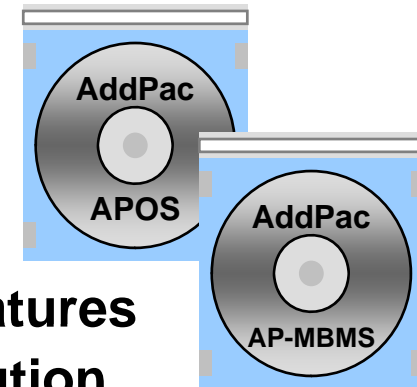
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Software Service

AP-VBS5000 HD Video Broadcasting Server

- **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



Video Service and Features

AP-VBS5000 HD Video Broadcasting Server

- **High-performance Video Codec Support**
 - H.264, MPEG-4
- **Powerful Image Resolution Support**
 - VGA(640x480), 720P(1280x720)
- **Up to 30fps at HD-Resolution (H.264)**
- **1Mbps to 4Mbps Operating Video Traffic Bandwidth**
- **Video Buffer Control for Video Traffic QoS**
 - Ensuring Optimized Quality
 - Frame Rate Control with Limited Bandwidth
- **Single Source Dual Video Encoding (HD, SD Terminals)**
- **RTP/UDP based Real-time Video Broadcasting Service**

AP-VBS5000 HD Video Broadcasting Server

Application Area

- Audio Real-time Broadcasting
- Audio/Video Real-time Broadcasting



AP-VBS5000 HD Video
Broadcasting Server

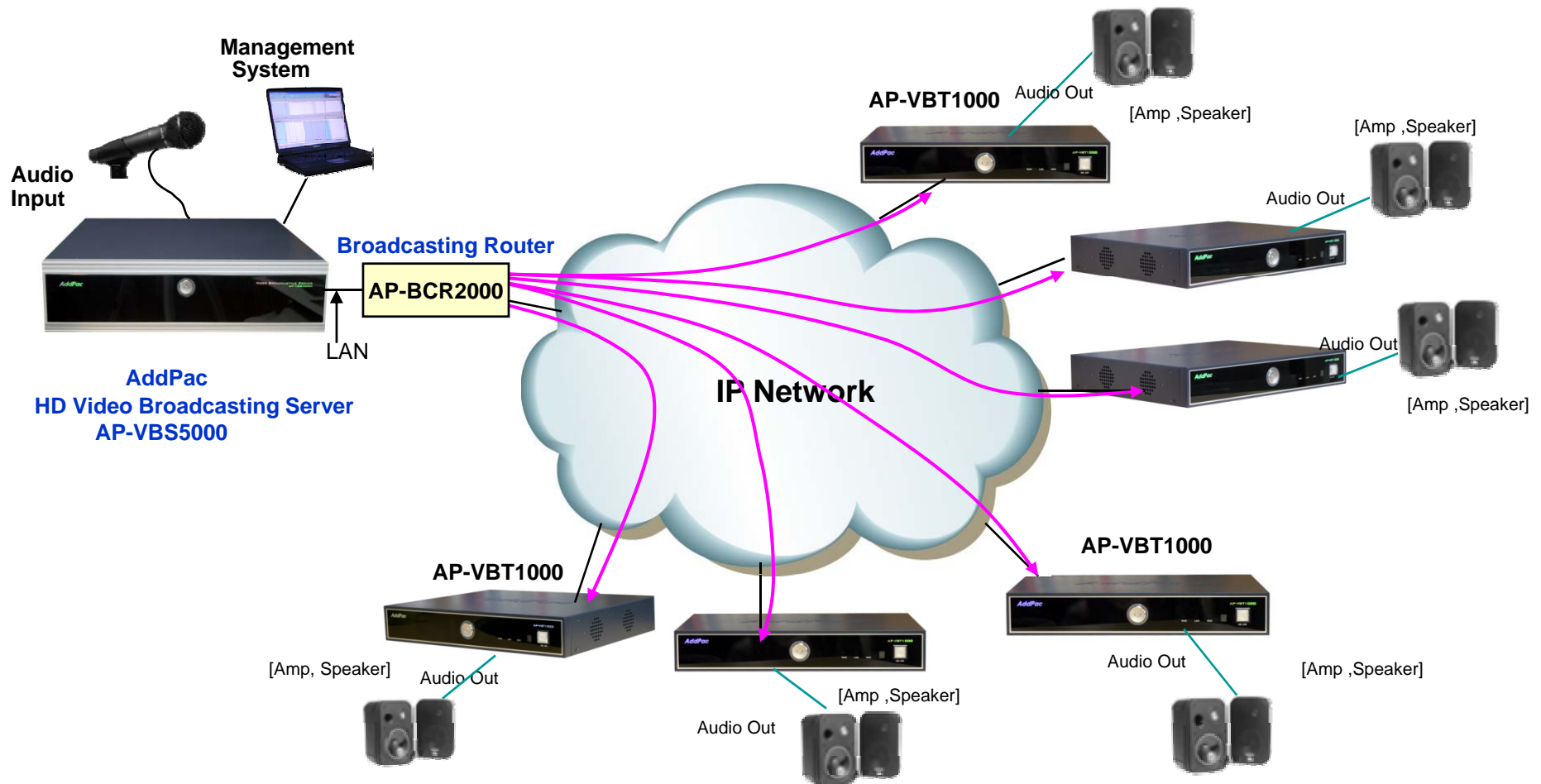


AP-VBT1000 HD Video Terminal

Audio Real-time Broadcasting

AP-VBS5000 HD Video Broadcasting Server

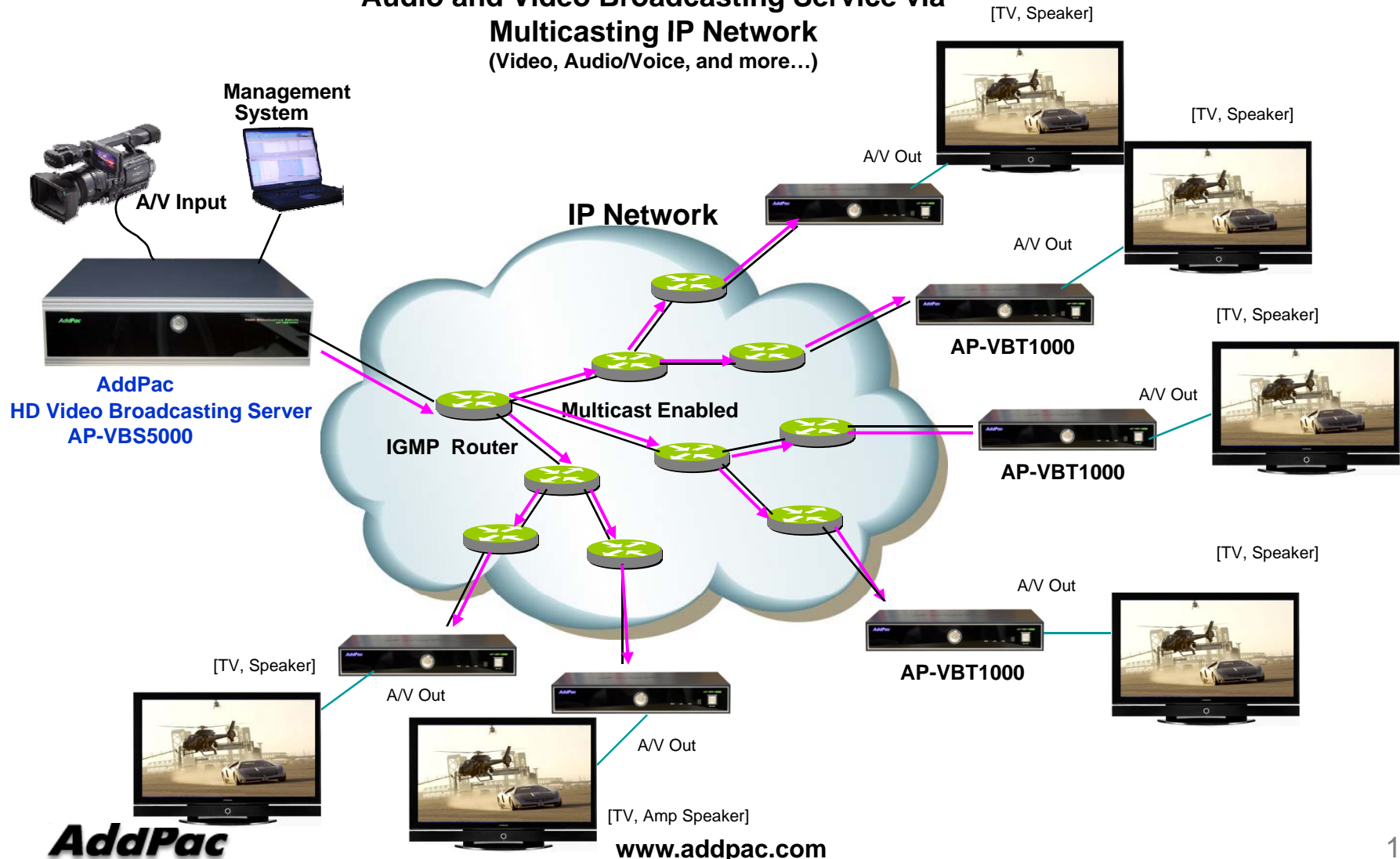
Audio Broadcasting Service via IP Network



Audio/Video Real-time Broadcasting

AP-VBS5000 HD Video Broadcasting Server

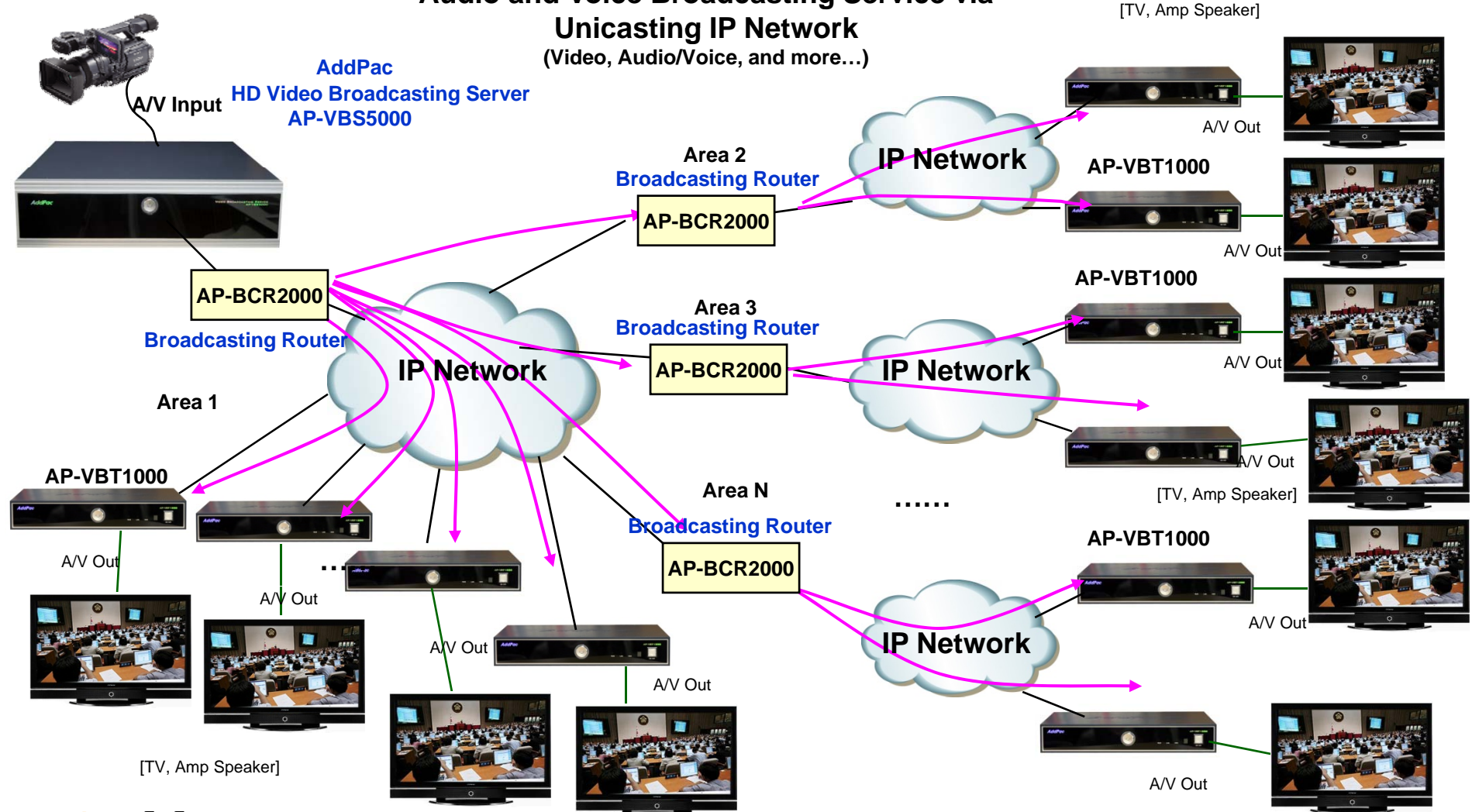
Audio and Video Broadcasting Service via Multicasting IP Network (Video, Audio/Voice, and more...)



Audio/Video Real-time Broadcasting

AP-VBS5000 HD Video Broadcasting Server

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



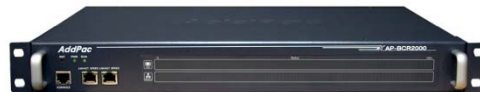
HD IP Broadcasting Solution

AP-VBS5000 HD Video Broadcasting Server

- HD Video Broadcasting Server : AP-VBS5000
- 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-VBS5000



AP-BCR2000



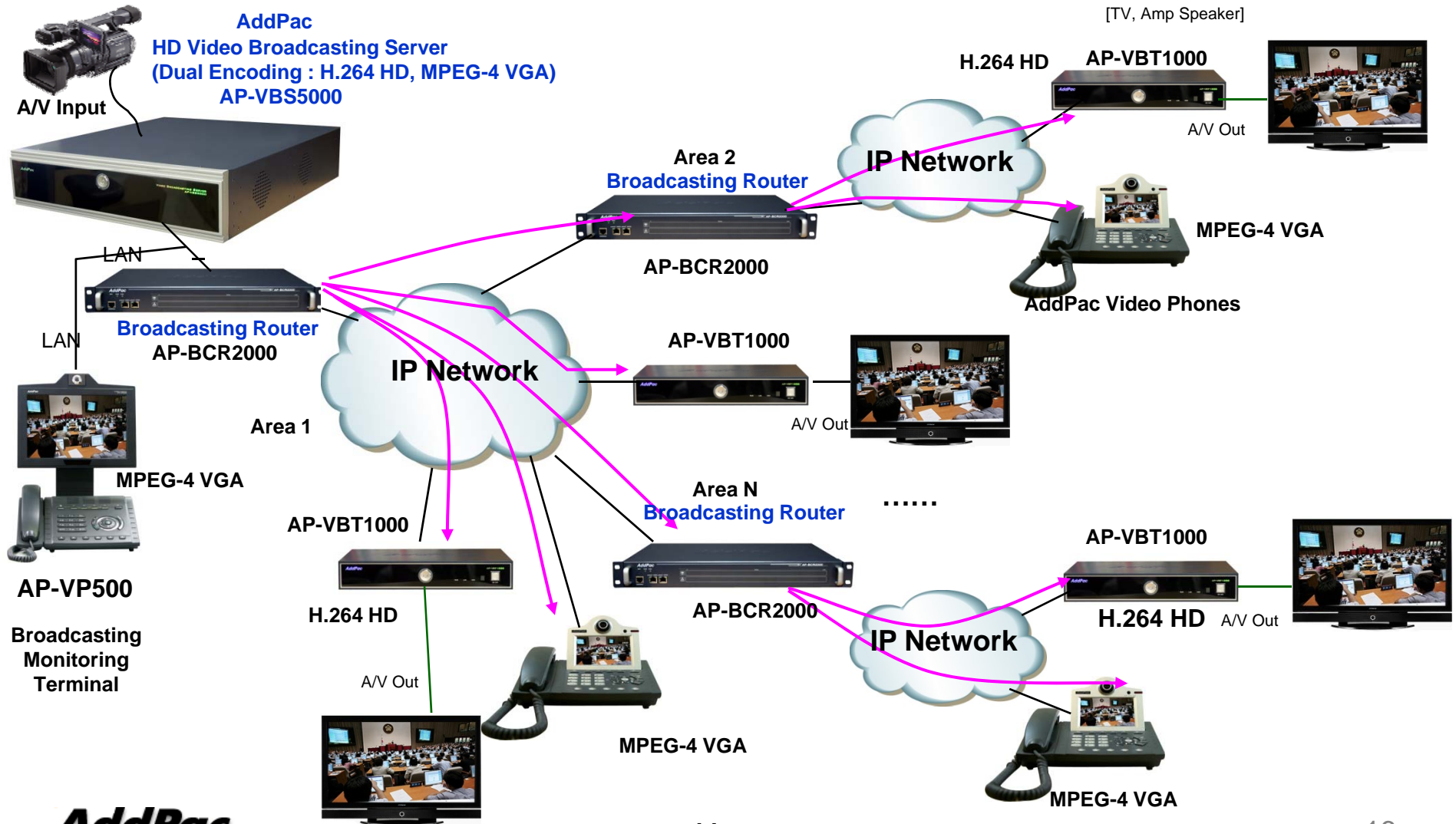
AP-VBT1000



AP-VP500

HD IP Broadcasting Component Diagram

AP-VBS5000 HD Video Broadcasting Server



Ordering Information

- **AP-VBS5000 HD Video Broadcasting Server**
 - AP-VBS5000 HD Video Broadcasting Server Main Body
 - High-performance Host Processor + DSP Architecture
 - 2-port 10/100/1000Mbps Gigabit Ethernet and 1-port RS-232C Console
 - HD-SDI, RGB, Composite, S-Video, Component Video Input (CH#0, CH#1)
 - Stereo RCA Audio Input Interface (CH#0, CH#1)
 - RS-232C PTZ Controller Interface (CH#0, CH#1)
 - Including Network Cable Set & Power Supply Cable, etc.
- **Built-in APOS Internetworking Software for AP-VBS5000**
- **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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