

HD IP based Remote Lecture Solution



**HD IP Broadcasting Solution
for Remote Lecture**

AP-SBS10000 HD Video Broadcasting Server
AP-VBS2000 HD Video Broadcasting Media Server
AP-VBT1000 HD Video Broadcasting Terminal
AP-AV3000 HD Video Codec

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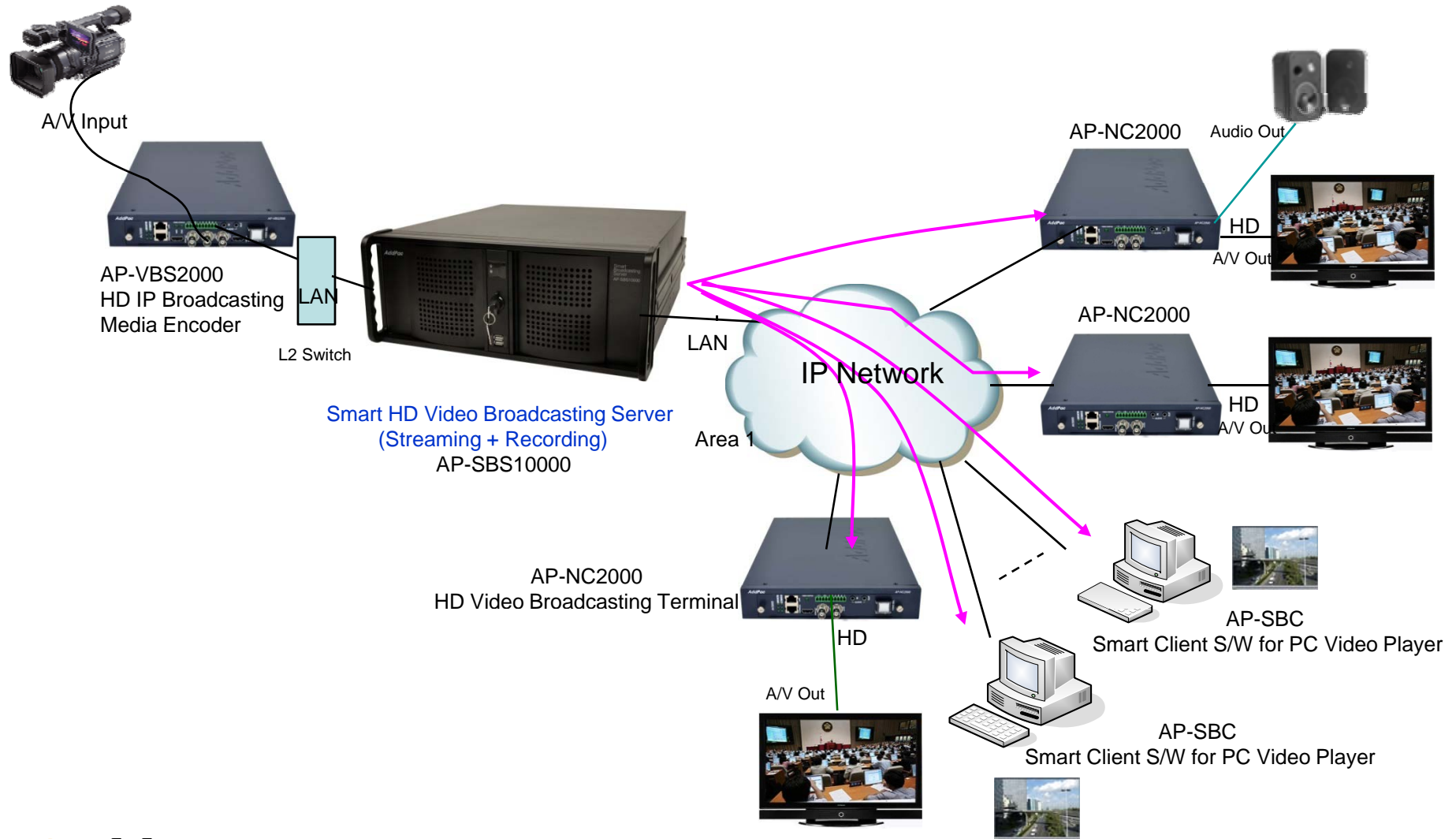
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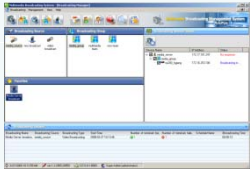

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 - HD IP Broadcasting Server: AP-SBS10000
 - HD IP Broadcasting Terminal : AP-NC2000
 - HD Broadcasting Management System : AP-MBMS
 - Smart Broadcasting Client S/W for PC Video Player : AP-SBC

HD IP based Remote Lecture Network Diagram



IP based Remote Lecture Solution Product Table

Products	Description	Model
	HD IP Broadcasting Media Encoder for Remote Lecture	AP-VBS2000
	HD IP Broadcasting Server (Broadcasting + Recording)	AP-SBS10000
	HD IP Broadcasting Terminal	AP-NC2000
	HD IP Broadcasting Management System (PC software, MS window)	AP-MBMS
	Smart Broadcasting Client (PC software, MS window)	AP-SBC100



AP-VBS2000 Video Media Encoder for remote lecture

Main Features

AP-VBS2000 Video Media Encoder

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- One(1) Module Slot for Video Media Encoder
- High-end Video Codec, H.264 High Profile
- Up to 30 frame/sec, 1080i Full HD, 720P HD Video Resolution Support
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- RTP, RTSP Protocol based Broadcasting Service
- IP based Network Protocol, Video/Voice Traffic QoS

Hardware Specification

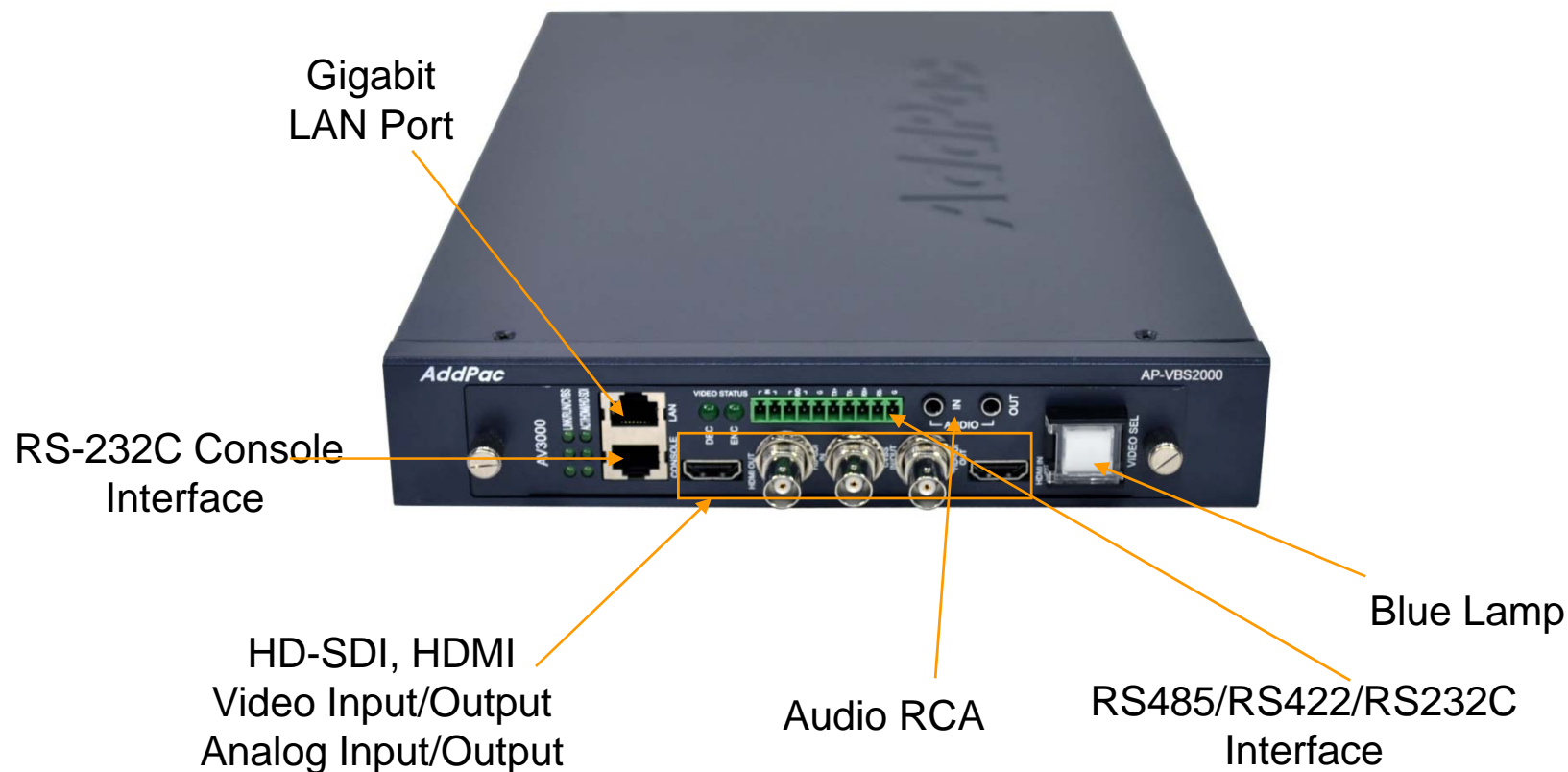
AP-VBS2000 Video Media Encoder

- High-End Video Processors + RSIC Processor
- Main Chassis
 - Power On/Off Switch
 - One(1) Video Encoder Module Slot
 - AV6000N 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

Hardware Specification

AP-VBS2000 Video Media Encoder

AP-VBS2000 (AV6000N) Front Side View



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Hardware Specification

AP-VBS2000 Video Media Encoder

AP-VBS2000 Back Side View



AC110~220V Free Voltage
Power Inlet


Power On/Off Switch



HD IP Broadcasting Server Solution

Contents

- HD IP Broadcasting Server Comparison Table
- HD IP Broadcasting Server Series
 - AP-SBS10000 : Large Capacity
 - AP-SBS1000 : Small Capacity



AP-SBS10000
HD IP Broadcasting
Server
(Real-time & On-Demand)

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Main Features

- High-Performance HD/D1 Video Broadcasting Service Features
- RTP, RTSP Protocol Support
- H.264 Video Codec, Full HD, HD, D1 Video Resolution Support
- HD Video Recording and Streaming Service
- Live Broadcasting and On-Demand Service
- Smart Client Broadcasting Video Player Support (MS-Window S/W, Web based)
- Smart Client Broadcasting Manager Support (MS-Window S/W, Web based)
- Powerful Management and User Friendly Features
- High-performance Audio and Video Service
- Firmware Upgradeable Architecture
- Up to 4 x 3.5Inch Hard Disk (SATA Type, 2Tera Byte Support)
- One(1) 10/100/1000Mbps Gigabit Ethernet Interface
- USB Interface Support (Front Side, Back Side)

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

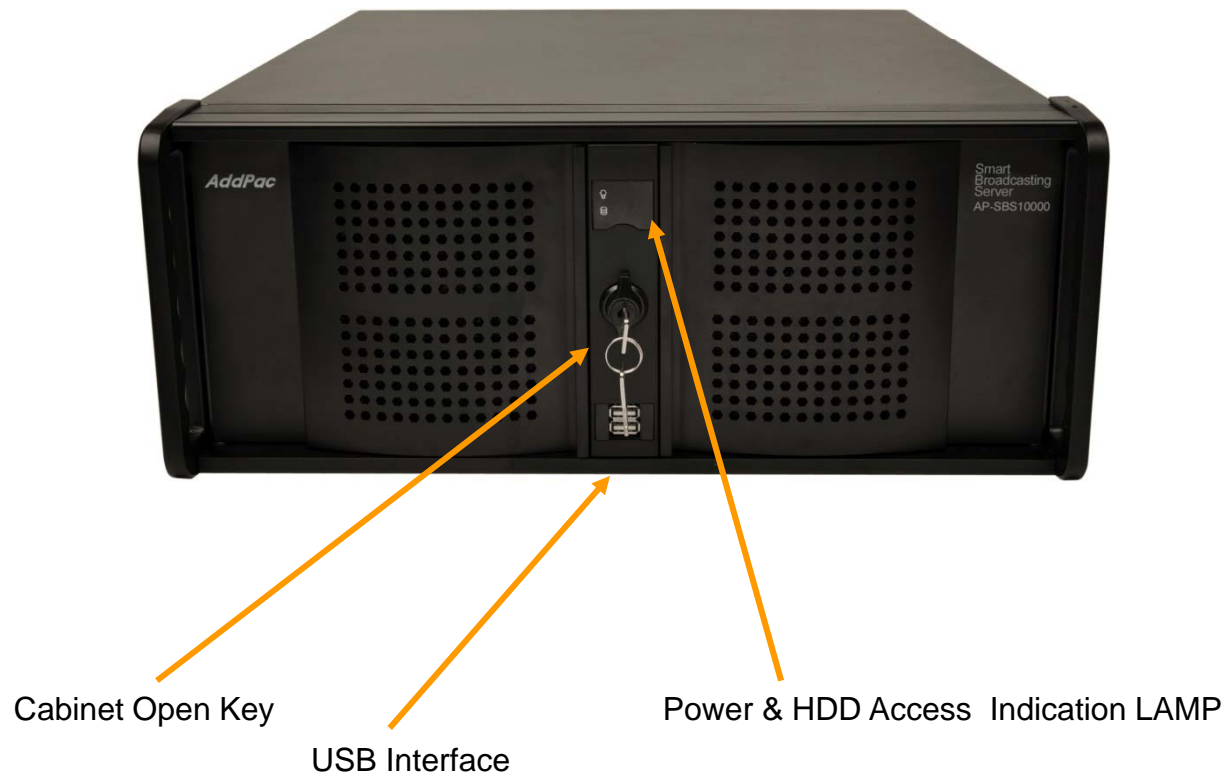
- High Performance Computing Power
- Main Chassis
 - Network Interface
 - One(1) 10/100/1000Mbps Fast Ethernet
 - Video Output Interface
 - HDMI, DVI, RGB Video Output
 - USB 2.0 Interfaces for Mouse, Keyboard, etc
 - One(1) DVD Writer for Video File Backup
 - Up to Four(4) Hard Disk

HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side

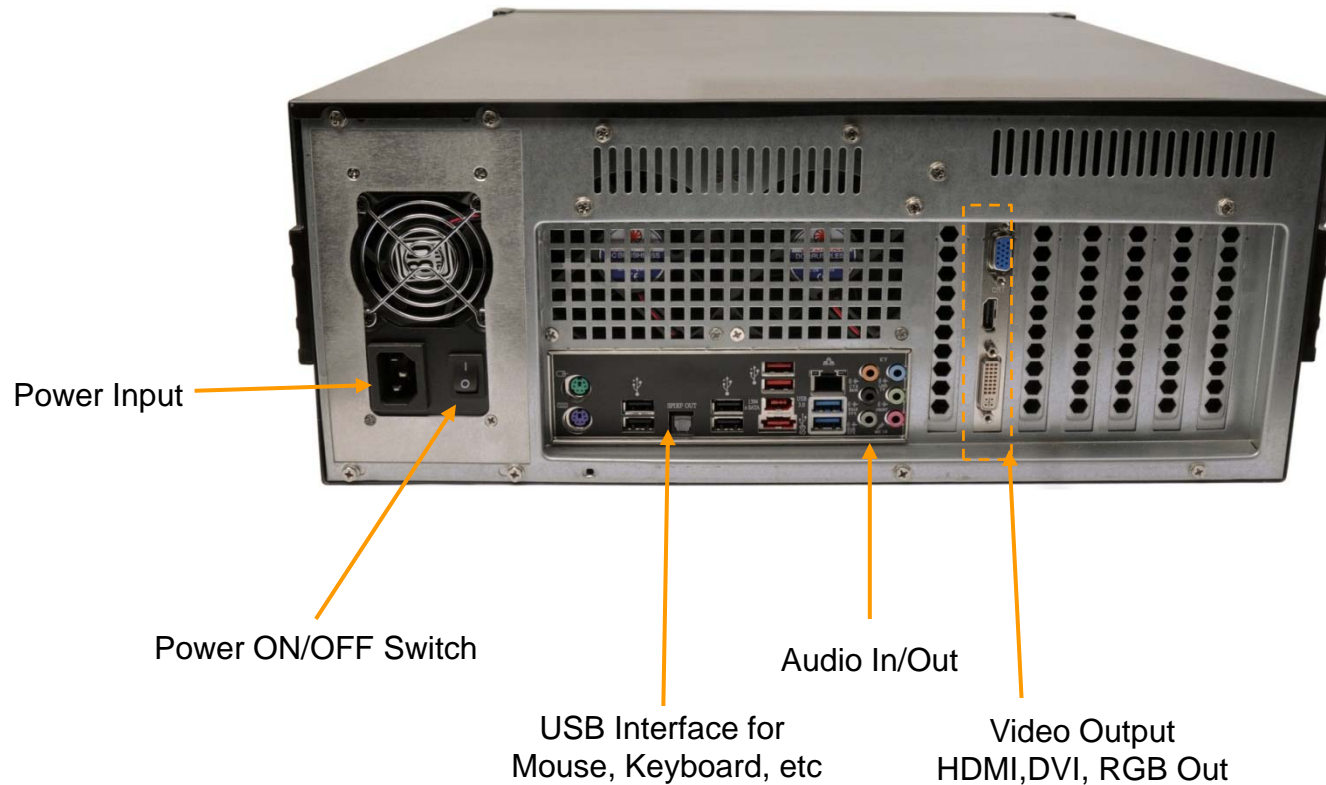


HD IP Broadcasting Server

AP-SBS10000 Smart HD Broadcasting Server

Hardware Specification

AP-SBS10000 Front Side





HD IP Broadcasting Terminal Solution



AP-NC2000 Video Broadcasting Terminal

Main Features

AP-NC2000 Video Media Decoder

- IP based HD Video Broadcasting Service Solution
- High Performance Real-time Audio/Video Broadcasting Solution
- One(1) Module Slot for Video Media Decoder
- High-end Video Codec, H.264 High Profile
- Up to 30 frame/sec, 1080i Full HD, 720P HD Video Resolution Support
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- RTP, RTSP Protocol based Broadcasting Service
- IP based Network Protocol, Video/Voice Traffic QoS

Hardware Specification

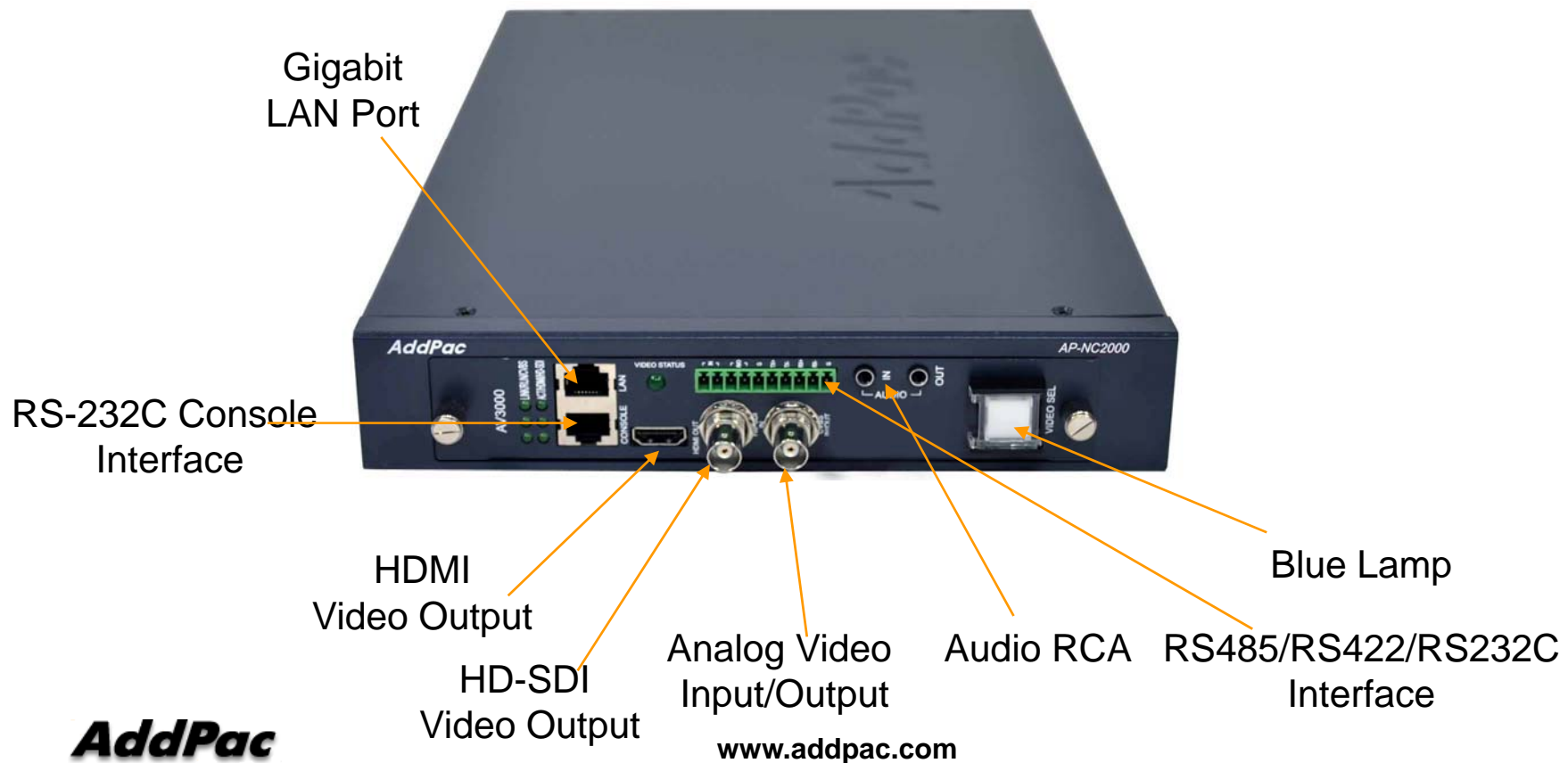
AP-NC2000 Video Media Decoder

- High-End Video Processors + RSIC Processor
- Main Chassis
 - Power On/Off Switch
 - One(1) Video Encoder Module Slot
 - AV3500D 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 (Output)
 - Component
 - HD-SDI Interface
 - HDMI Interface
 - Audio Interface (Input/Output)
 - RCA Stereo Connector

Hardware Specification

AP-NC2000 Video Media Decoder

Front Side View



Hardware Specification

AP-NC2000 Video Media Decoder

Hardware Specification

Back Side View



AC110~220V Free Voltage
Power Inlet

Power On/Off Switch



AP-MBMS HD IP Broadcasting Management System

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

Main Features

- User Register and Access Restriction Management
- Broadcasting Device Management
- Broadcasting Source, Group, Favorite List Management
- Reserved Broadcasting and Time Signal Broadcasting
- Fire Reception Department Setup (AP3150)
- Emergency Broadcasting Setup and Broadcasting
- Fire Emergency Broadcasting Setup and Broadcasting
- TTS Broadcasting
- Remote Broadcasting Management (AP-VP300 Remote Broadcasting)
- Broadcasting Device Inspection
- Search Event Log

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

Hardware Requirement

1. e-MBMS Server H/W Requirement

- CPU: Intel Pentium4 1GHz (minimum)
- MEMORY: 512Mbyte (minimum)
- HDD: 40GB
- OS: Windows XP, Windows 2000, Windows 7..

2. e-MBMS Client H/W Requirement

- CPU: Intel Pentium Series
- MEMORY: 256Mbyte (minimum)
- OS: Windows XP, Windows 2000, Windows 7..

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

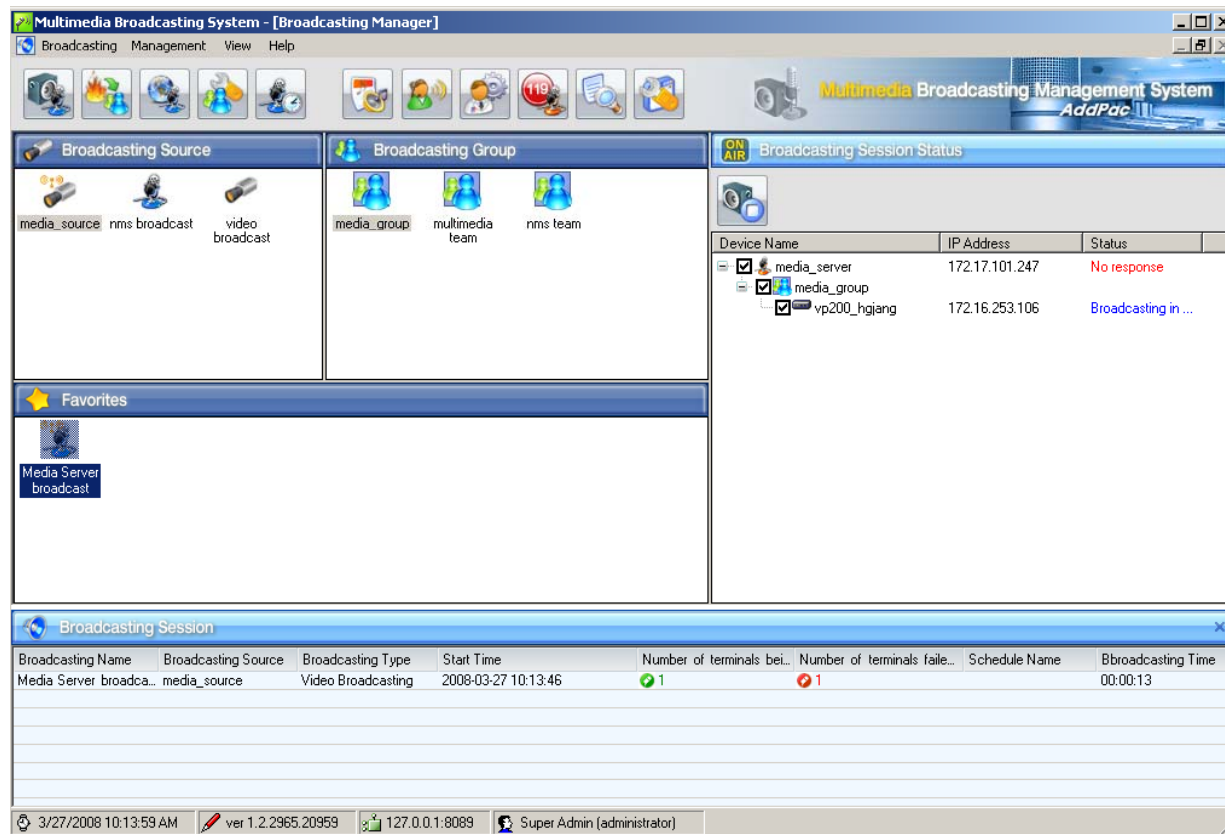
Software Requirement

1. Database : MySQL Server 5.0
2. e-MBMS Server
 - Java JRE 1.5
 - e-MBMS Server
3. e-MBMS Client
 - e-MBMS Client

HD Broadcasting Management System

AP-MBMS Multimedia Broadcasting Management System

MBMS GUI Initial Screen



Broadcasting Source

media_source nms broadcast video broadcast

Broadcasting Group

media_group multimedia team nms team

Broadcasting Session Status

Device Name	IP Address	Status
media_server	172.17.101.247	No response
media_group		
vp200_hgjang	172.16.253.106	Broadcasting in ...

Favorites

Media Server broadcast

Broadcasting Session

Broadcasting Name	Broadcasting Source	Broadcasting Type	Start Time	Number of terminals bei...	Number of terminals faile...	Schedule Name	Bbroadcasting Time
Media Server broadca...	media_source	Video Broadcasting	2008-03-27 10:13:46	1	1		00:00:13

3/27/2008 10:13:59 AM ver 1.2.2965.20959 127.0.0.1:8089 Super Admin (administrator)



Thank you!

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