AP-ABS5000

IP High Quality Audio Broadcasting Server

High Performance IP based Multichannel IP High Quality Audio Broadcasting Server

IP Broadcasting Service via Cellular Phone (LTE, 3G, etc)

AddPac Technology

2015, Sales and Marketing

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- Unicast Service Network Diagram

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- IP Audio Broadcasting Solution

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Product Overview

- IP based Audio Broadcasting Solution
- Hardware Architecture for Multichannel Audio Broadcasting Service
- Ten(10) Module Slots for Multichannel Audio Encoding Service
- High Quality Audio Codec Support (G.711, etc)
- FXO PSTN Interface Support for Cellular based Broadcasting Service
- Unicast and Multicast Broadcasting Scheme
- Enhanced MBMS (Multimedia Broadcasting Management System) Support
- Multichannel Audio IN/OUT Port
- High-Quality Audio/Voice Service
- Firmware Upgradeable Architecture
- Broadcasting Solution with Outstanding Network Service Capability
- Module based Power Supply
- Dual Power Supply for Power Duplication

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Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server
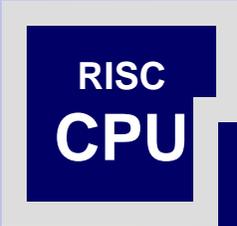
RISC
CPU

High-end
DSP

- RISC Microprocessor Computing Power

- High-end Programmable DSP Hardware Architecture

- Ten(10) Module Slots for Audio Broadcasting Codec Module, FXO VoIP Module, etc

- Module Type Dual Power Supply

- High quality Audio and Voice Interface
  – Stereo Audio Input Connector
  – Stereo Audio Output Connector

- Network Interface
  – Two(2) 10/100Mbps Fast Ethernet (RJ45)
  – One(1) RS-232C Interface (RJ45) for Command Line Interface

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Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server

RISC
CPU

High-end
DSP

AP-ABS5000 Front Side

Audio Port Active LED

Audio Input

Audio Output

RS232C Console

FXO Board

Audio Broadcasting Service Module

On-Air Blue LAMP

Fast Ethernet (LAN0, LAN1)

CPU Board

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Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server

AP-CPU Board

AP-N1-HQA1000 Board

RS232C Console

**Fast Ethernet
(LAN0, LAN1)**

**Audio IN
(MIC, Line IN)**

ON-AIR Blue LAMP

**Audio OUT
(HP, Line OUT)**

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Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server

AP-N1-FXO8 Board

FXO Analog Interface

Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server

RISC CPU

High-end DSP

AP-ABS5000 Back Side

Power ON/OFF Switch **Power Input**

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Hardware Specification

AP-ABS5000 IP High Quality Audio Broadcasting Server

RISC CPU

High-end DSP

AP-ABS5000 Audio Modules

Audio Module Type (AP-N1-HQA1000)	Audio Module Features	Maximum Audio Channel in AP-ABS5000
	1-Channel Audio In/Out Port	
	Audio IN : MIC, Line IN Audio OUT : Headphone, Line OUT	Up to 10 channel = 10 Module x 1 Channel
	3.5mm Stereo JACK	
	High Quality G.711,etc, Audio Codec	

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AP-HQA Module

AP-ABS5000 IP High Quality Audio Broadcasting Server

Connect with 1:2 Stereo Jack

Direct MIC

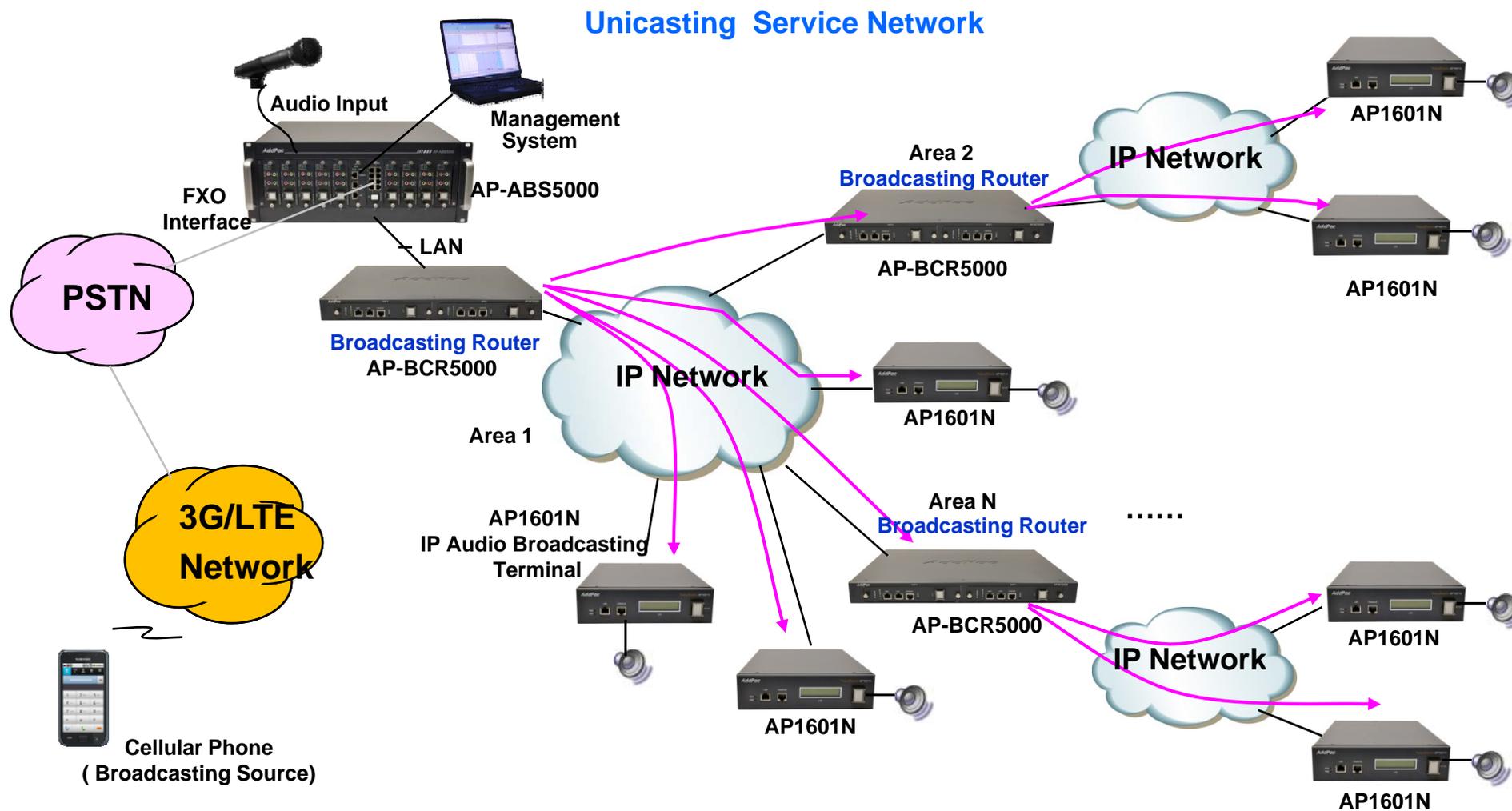**Connect with 2:1 Stereo Jack**

•**High quality codec realizes high quality audio service**
•**Direct MIC-In/ Headphone In Port for monitoring**
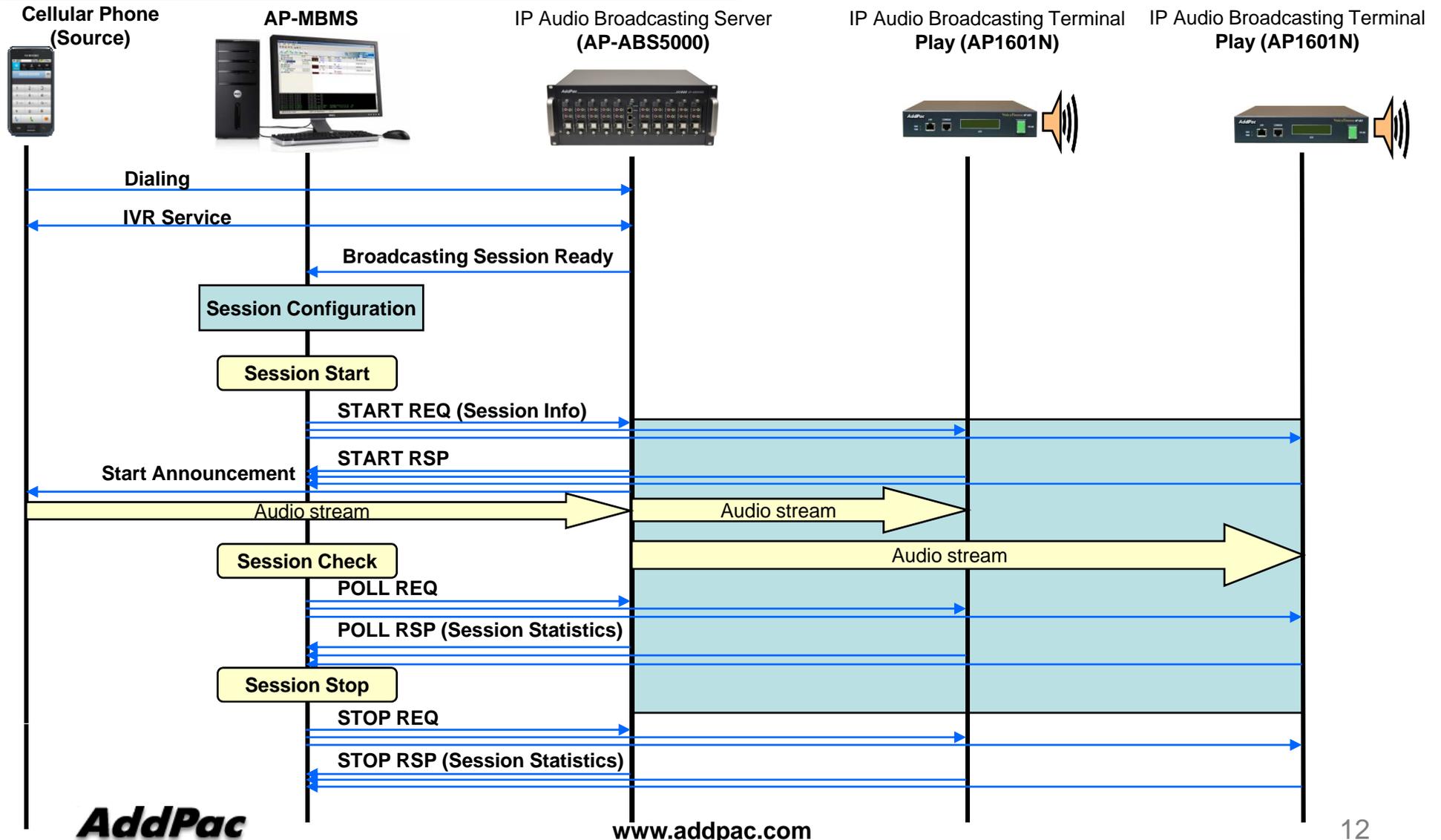•**Real time High Quality Audio Band Broadcasting**

Headphone

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Unicast Service Network Diagram

AP-ABS5000 IP High Quality Audio Broadcasting Server

Unicasting Service Network

Audio Input

Management System

AP-ABS5000

FXO Interface

LAN

PSTN

Broadcasting Router
AP-BCR5000

Area 1

IP Network

Area 2
Broadcasting Router

AP-BCR5000

IP Network

AP1601N

AP1601N

AP1601N

3G/LTE Network

AP1601N
IP Audio Broadcasting Terminal

Area N
Broadcasting Router

......

AP-BCR5000

IP Network

AP1601N

AP1601N

Cellular Phone
(Broadcasting Source)

AP1601N

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IP Audio Broadcasting Signal Flow

AP-ABS5000 IP High Quality Audio Broadcasting Server

Cellular Phone (Source) | **AP-MBMS** | **IP Audio Broadcasting Server (AP-ABS5000)** | **IP Audio Broadcasting Terminal Play (AP1601N)** | **IP Audio Broadcasting Terminal Play (AP1601N)**

- Dialing
- IVR Service
- Broadcasting Session Ready
- **Session Configuration**
- **Session Start**
- START REQ (Session Info)
- START RSP
- Start Announcement
- Audio stream / Audio stream / Audio stream
- **Session Check**
- POLL REQ
- POLL RSP (Session Statistics)
- **Session Stop**
- STOP REQ
- STOP RSP (Session Statistics)

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IP HQ Audio Broadcasting Solution

Audio Broadcasting Manager S/W	HQ Audio Broadcasting Server AP-ABS5000	Audio Broadcasting Router (Relay Server)	HQ Audio Broadcasting Terminal AP1601N	AMP. On/Off Power Switch Box AP-PSB
Window based Audio Broadcasting Management Software.	Embeded Hardware based Audio Codec. Ten(10) HQ Audio Codec Module. G.711 , etc, Audio Codec.	1:N Audio Broadcasting Router. Gigabit Ethernet Support	Embeded Hardware based Audio Terminal One(1) HQ Audio Codec Module. G.711, etc Audio Codec.	AMP. Power ON/OFF Switch Box. Background Noise Remove at OFF-AIR

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Ordering Information

- **AP-ABS5000 IP High Quality Audio Broadcasting Server Hardware**
  - AP-ABS5000 Main Body
  - RISC Microprocessor with High-end Programmable DSP Architecture
  - 2-ports 10/100Mbps Fast Ethernet and 1-port RJ45 RS-232C Console
  - AP-N1-HQA1000 Module (Up to10 slot)
  - Including Network Cable Set & Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-ABS5000**
- **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
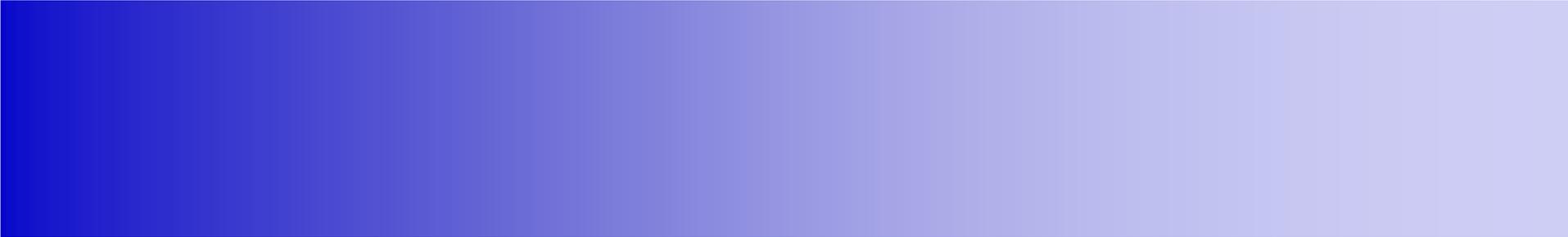
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Thank you!

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