# AP-IP230G
# Gigabit Ethernet
# Presence IP Phone

High Performance Broadband Convergence Network
IP Phone Solution

**AddPac**

**AddPac Technology**

Sales and Marketing

# Contents

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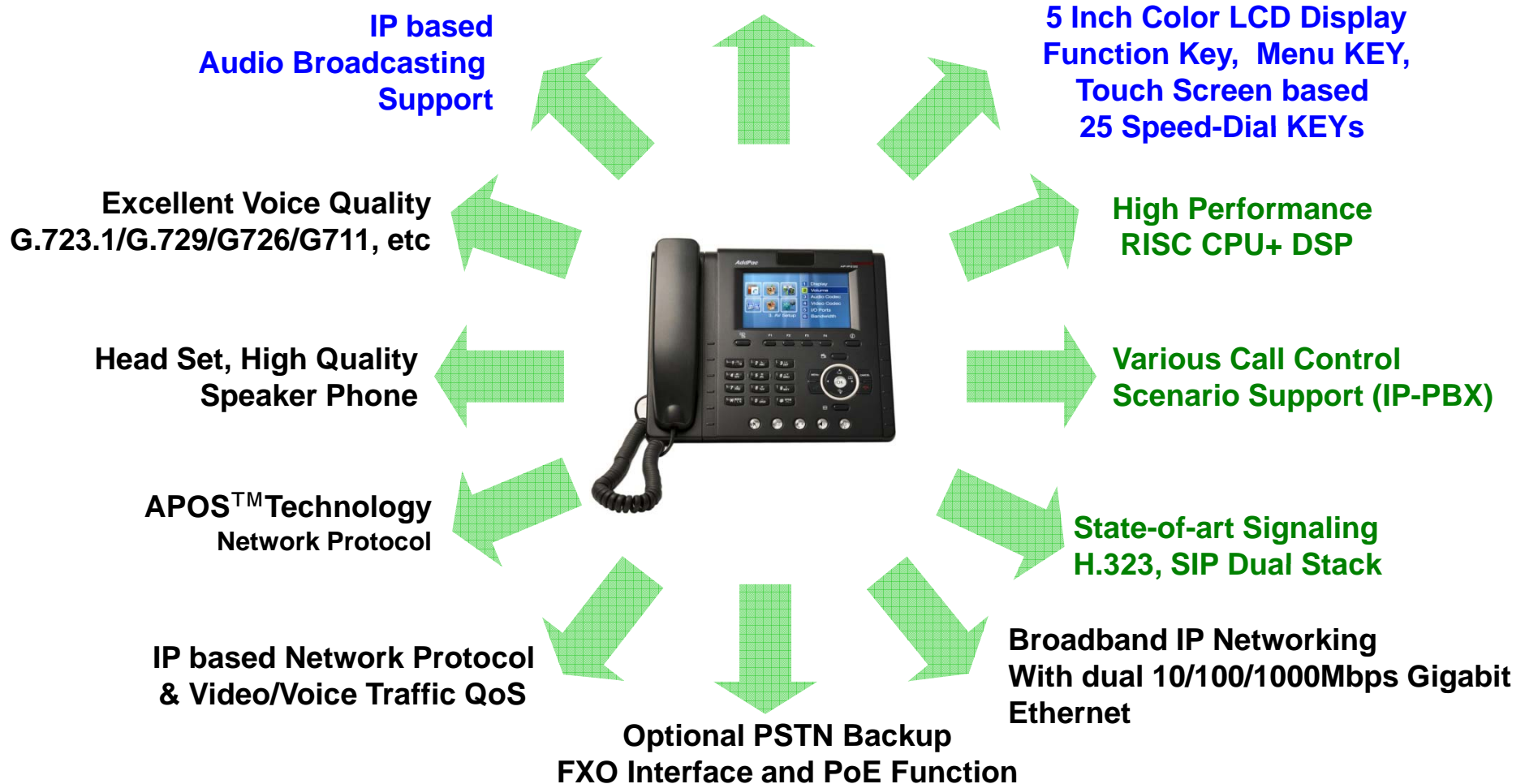**AddPac**

# Product Overview

## AP-IP230G Gigabit Ethernet Presence IP Phone

- IP Phone Solution

- Audio Broadcasting Solution

- High-performance Audio, and Voice Service

- Firmware Upgradeable Architecture

- VoIP Solution with Outstanding Network Service Capability

- Audio Privacy Protection
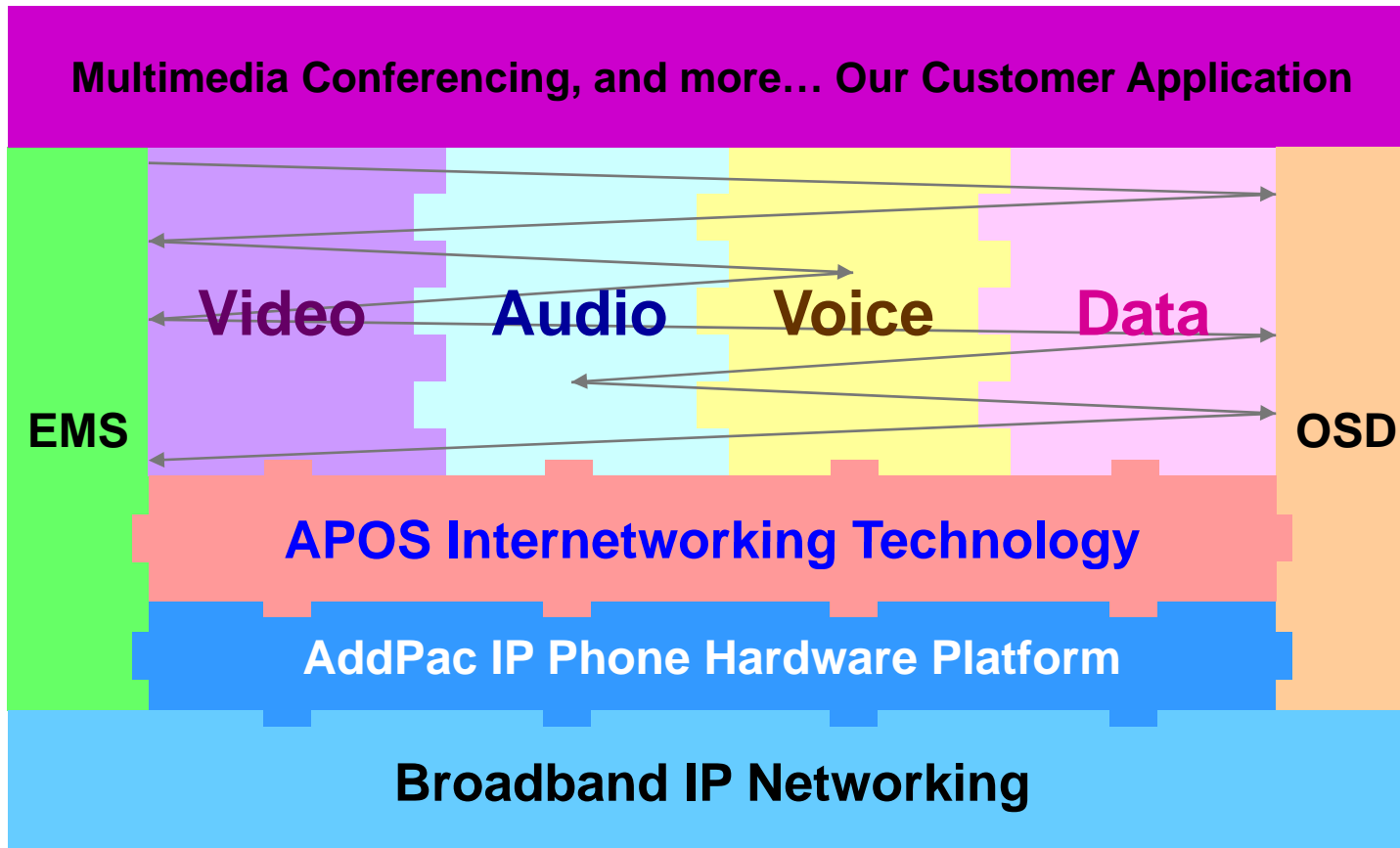
- Gigabit Ethernet Interface Support

# Product Highlights

## AP-IP230G Gigabit Ethernet Presence IP Phone

**High-End IP Phone Solution**

**IP based Audio Broadcasting Support**

**5 Inch Color LCD Display Function Key, Menu KEY, Touch Screen based 25 Speed-Dial KEYs**

**Excellent Voice Quality G.723.1/G.729/G726/G711, etc**

**High Performance RISC CPU+ DSP**

**Head Set, High Quality Speaker Phone**

**Various Call Control Scenario Support (IP-PBX)**

**APOS™Technology Network Protocol**

**State-of-art Signaling H.323, SIP Dual Stack**

**IP based Network Protocol & Video/Voice Traffic QoS**

**Broadband IP Networking With dual 10/100/1000Mbps Gigabit Ethernet**

**Optional PSTN Backup FXO Interface and PoE Function**

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# Multimedia Service

**Multimedia Conferencing, and more… Our Customer Application**

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

**EMS**   **OSD**

**APOS Internetworking Technology**

**AddPac IP Phone Hardware Platform**

**Broadband IP Networking**

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

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# Hardware Specification

## AP-IP230G Gigabit Ethernet Presence IP Phone

- RISC+DSP Microprocessor Computing Power
  (Dual Processor Architecture)
- High Quality 5 Inch Color LCD Panel
- Touch Screen based 25 Speed Dial Key & User Presence Features
- Optional PSTN FXO Backup Interface
  - FXO Interface
- Optional PoE (Power over Ethernet) Interface
- High quality Audio and Voice Interface
  - Stereo Audio Input Connector
  - Stereo Audio Output Connector
- Network Interface
  - Two(2) 10/100/1000Mbps Gigabit Ethernet
- USB Host Mode Interface
  - USB Wifi, etc
- Power Supply
  - Power over Ethernet
  - External Power Adaptor (5V, 3A)

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# Hardware Specification

## AP-IP230G Gigabit Ethernet Presence IP Phone



5 Inch Color LCD With touch screen

Soft Keys

Navigation Keys

Function Keys

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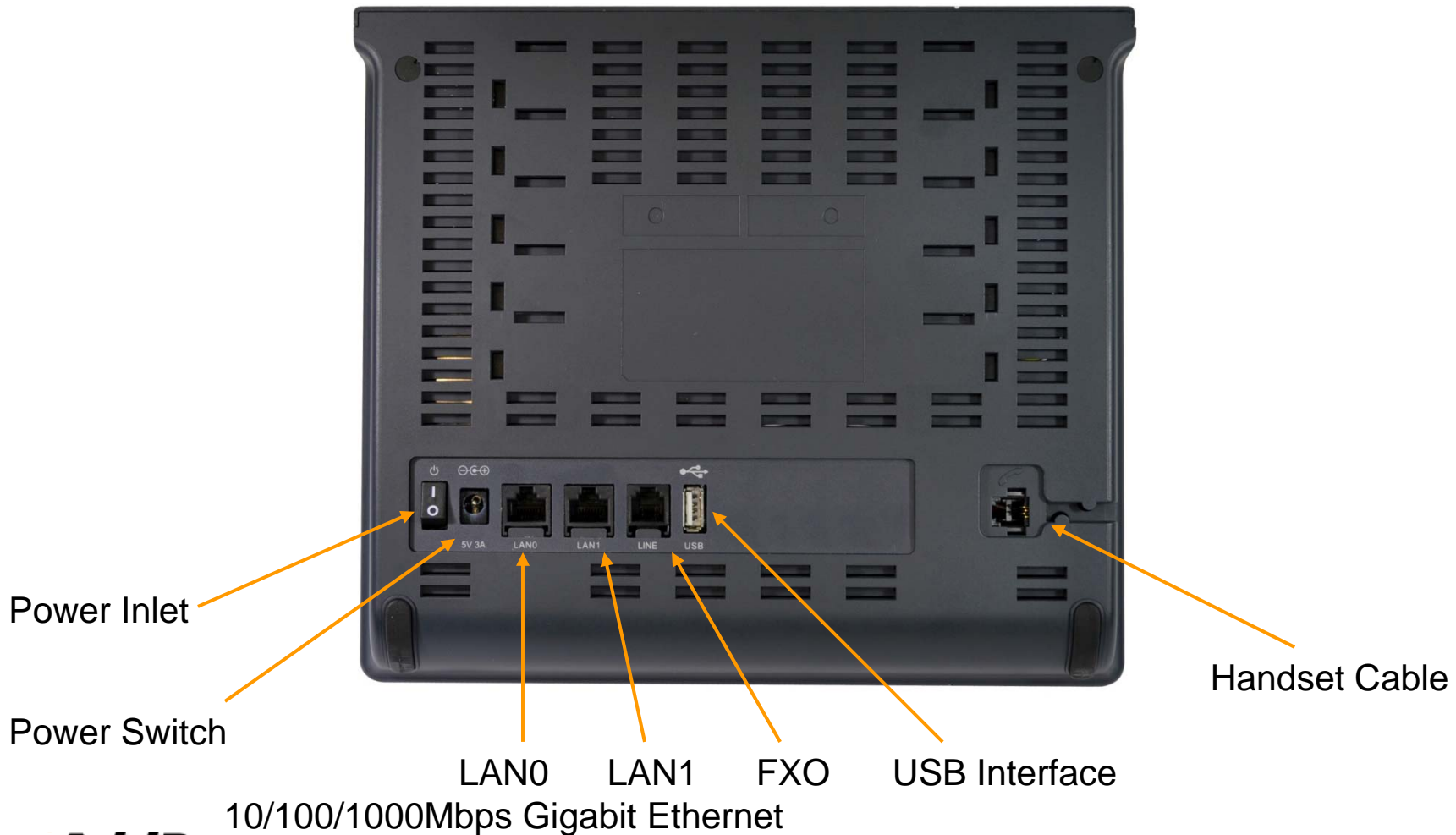**www.addpac.com**

# Hardware Specification

Audio In/Out
for Headset

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# Hardware Specification

AP-IP230G Gigabit Ethernet Presence IP Phone



Power Inlet

Power Switch

LAN0    LAN1    FXO    USB Interface

10/100/1000Mbps Gigabit Ethernet

Handset Cable

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# Software Service

- **Built-in AddPac APOS Internetworking Software**
  - Scalability, Functionality, and Stability Features
  - Audio Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
  - Audio, and Voice Codec
- **Firmware Upgradeable Architecture**
- **Industry Standard IP based Network Protocol Features**

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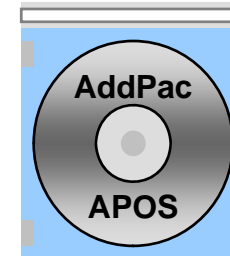
# Audio & Voice Service and Features

AP-IP230G Gigabit Ethernet Presence IP Phone

- **Audio & Voice Networking Interface**
  - Audio Input/Output Port (2 x 3.5mm Stereo Female Connector)

- **VoIP based Signaling Protocol Support**
  - H.323, SIP Multiple Signaling Protocol Stack
  - H.323 Gateway, Gatekeeper Inter-working Support

- **High-performance Audio & Voice Codec Support**
  - Line IN/OUT : G.723.1,G.729, G.726, G.711 Audio Codec, etc

- **Enhanced QoS Management Features for Voice Traffics**

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# Network Service and Features

- **Network Managements**
  - Standard SNMP Agent (MIB v2) Support
  - Remote Management using Console, Telnet
  - Web based Management using HTTP Server 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

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# Network Service and Features

- **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
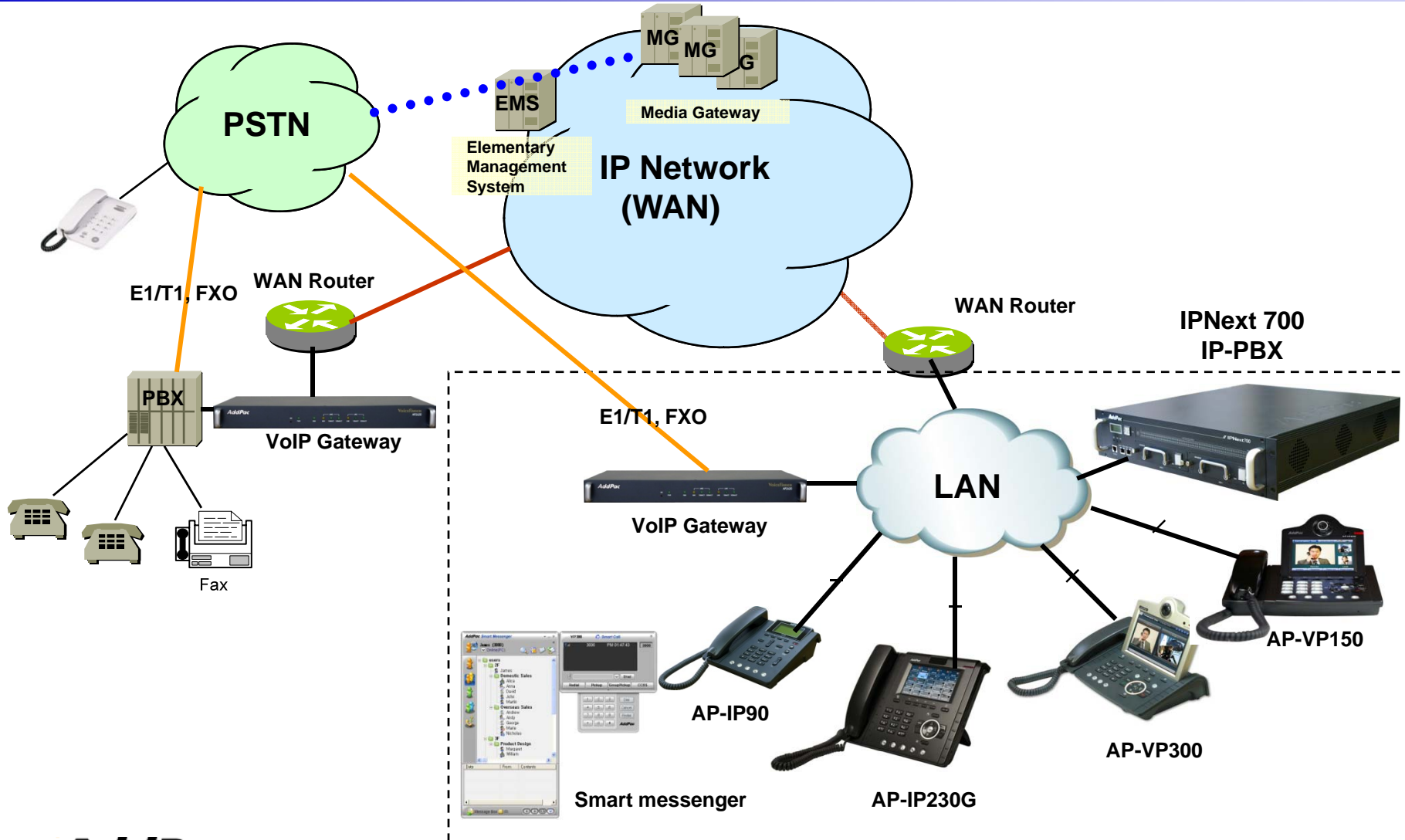
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# AP-IP230G Gigabit Ethernet IP Phone

## Application Area

- IP-PBX IP Phone Terminal (SIP, H.323, etc)
- Audio/Video Real-time Broadcasting
- Audio Conference

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# Standard IP-PBX Application

## AP-IP230G Gigabit Ethernet Presence IP Phone



**PSTN**

MG MG G

**EMS**

**Media Gateway**

Elementary Management System

**IP Network (WAN)**

E1/T1, FXO

**WAN Router**

**WAN Router**

**IPNext 700 IP-PBX**

**PBX**

**VoIP Gateway**

Fax

E1/T1, FXO

**VoIP Gateway**

**LAN**

Smart messenger

AP-IP90

AP-IP230G

AP-VP300

AP-VP150

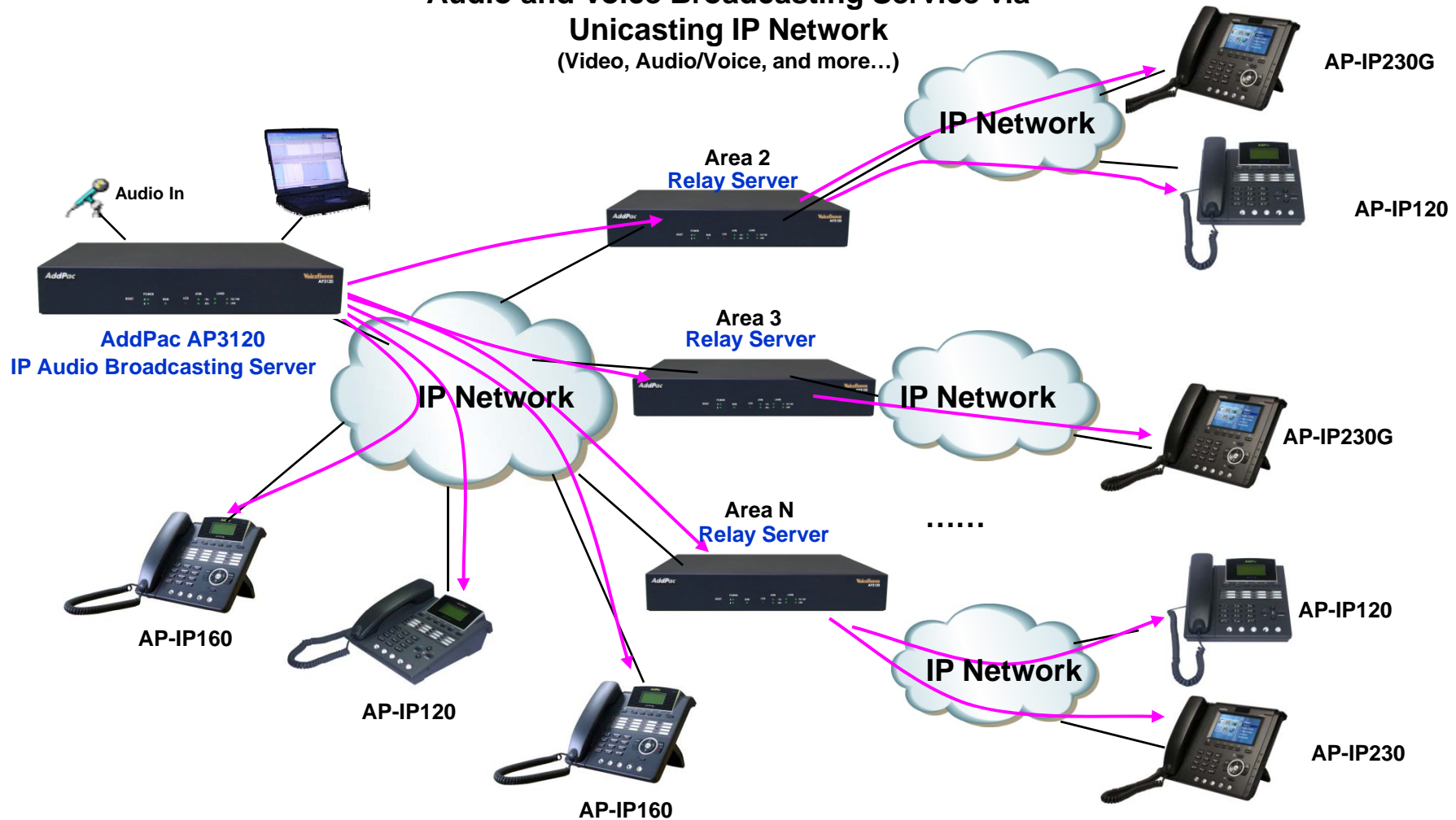**AddPac**

# Audio Real-time Broadcasting

## AP-IP230G Gigabit Ethernet Presence IP Phone

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

Audio In

**AddPac AP3120
IP Audio Broadcasting Server**

**Area 2
Relay Server**

**Area 3
Relay Server**

**Area N
Relay Server**

**IP Network**

**IP Network**

**IP Network**

**IP Network**

......

AP-IP230G

AP-IP120

AP-IP230G

AP-IP120

AP-IP230

AP-IP160

AP-IP120

AP-IP160

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# Audio Real-time Broadcasting
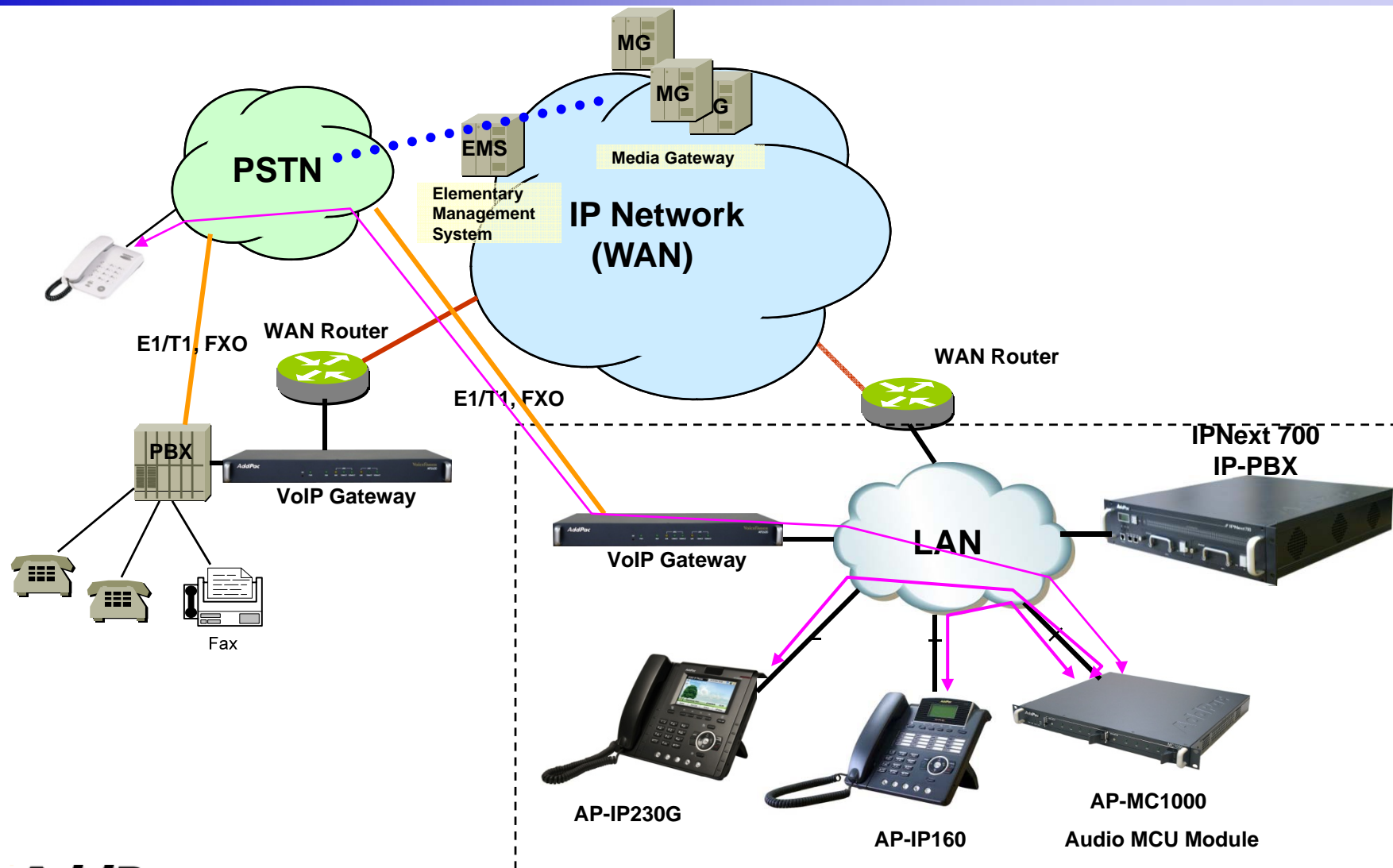
## AP-IP230G Gigabit Ethernet Presence IP Phone

**Remote Site** **Audio and Video Broadcasting Service**
**(Video, Audio/Voice, and more…)**

**Audio Broadcasting in HQ or Center**

Audio In

**AP-MBMS**
Multimedia Broadcasting
Management System

**AddPac AP3120**
**IP Audio Broadcasting Server**

**IP Network**

LAN

[WAN Router]

10/100M

**AP-IP230G**

Audio In

**Audio Broadcasting in Remote Site**

[WAN Router]

[WAN Router]

[WAN Router]

**AP-IP160**

**AP-IP230G**

**AP-IP120**

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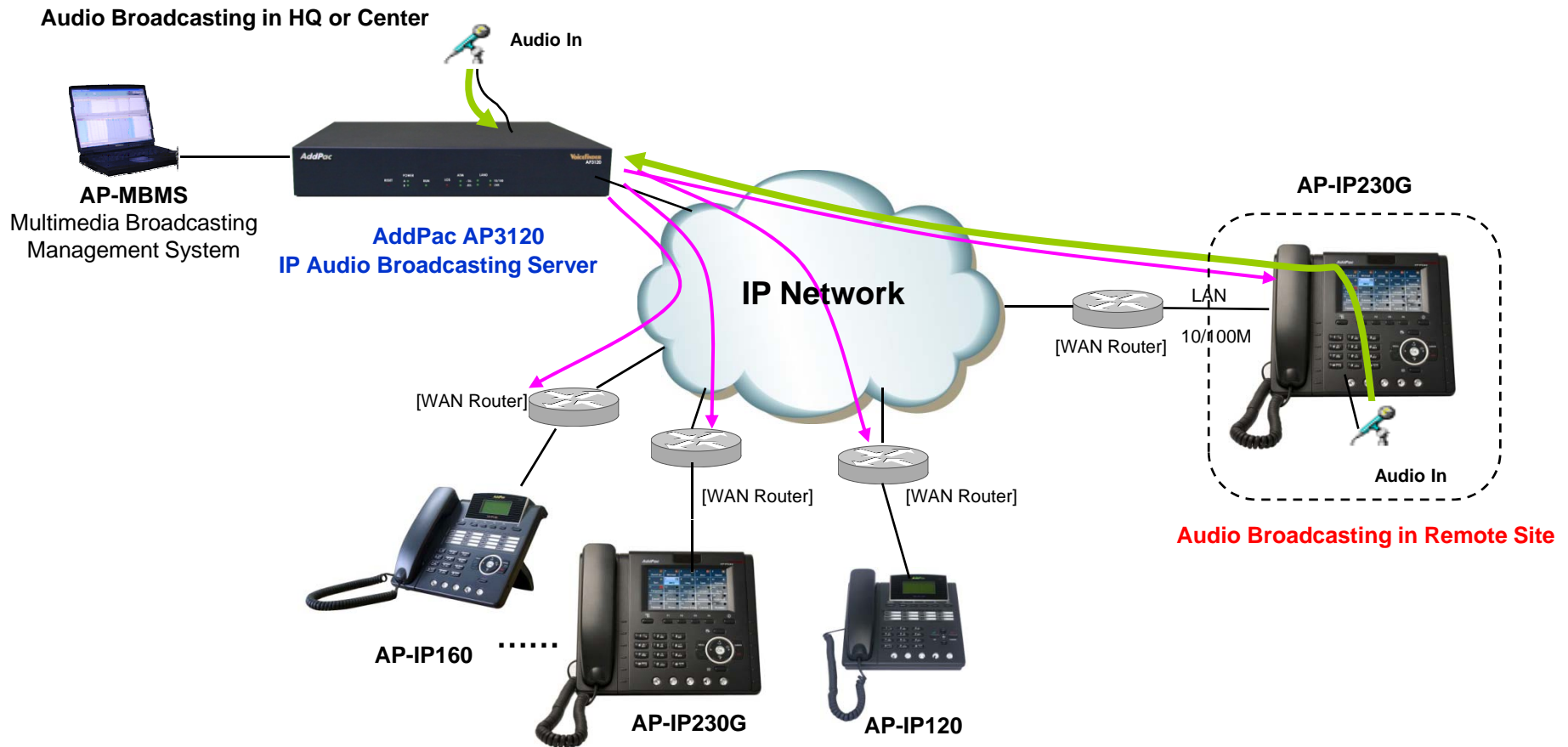
# Audio Conferencing (Audio MCU)

## AP-IP230G Gigabit Ethernet Presence IP Phone



MG

MG G

EMS

Media Gateway

Elementary
Management
System

PSTN

IP Network
(WAN)

E1/T1, FXO

WAN Router

VoIP Gateway

E1/T1, FXO

WAN Router

PBX

Fax

VoIP Gateway

LAN

IPNext 700
IP-PBX

AP-IP230G

AP-IP160

AP-MC1000

Audio MCU Module

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# Ordering Information

- **AP-IP230G Gigabit Ethernet IP Phone Hardware**
  - AP-IP230G IP Phone Main Body
  - RISC Microprocessor with Embedded DSP Architecture
  - 5 Inch Color LCD, Function KEY, Menu KEY, Touch Screen
  - External 3.5mm Audio Input/Output
  - 2-ports 10/100/1000Mbps Gigabit Ethernet
  - Optional FXO Interface Port for PSTN Backup
  - Optional PoE Interface
  - Including Network Cable Set & Ext. Power Supply, etc.
- **Built-in APOS Internetworking Software for AP-IP230G**
- **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

**AddPac**

# Thank you!

## **AddPac Technology Co., Ltd.**
## Sales and Marketing

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