

AP-MC1000™ Video MCU

High-performance Video MCU Solution



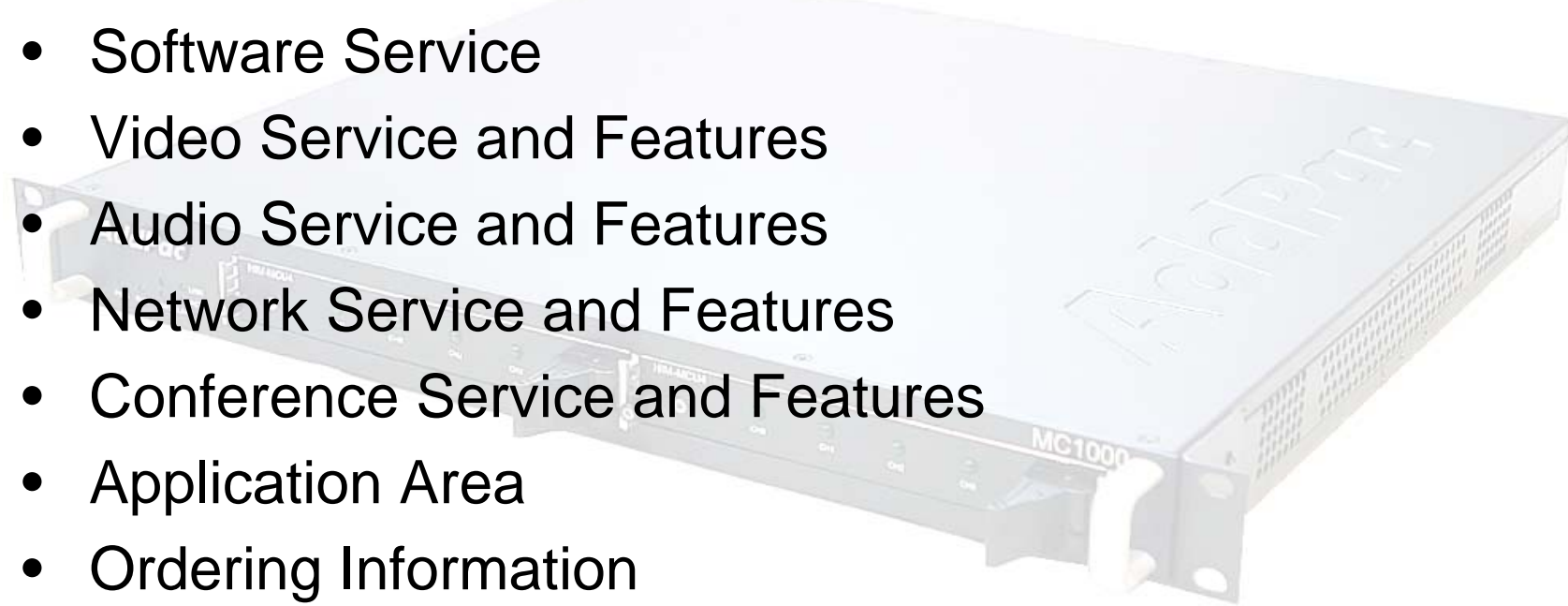
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AddPac Technology

2005, Sales and Marketing

AP-MC1000 Video MCU

- Product Overview
- Benefits and Features
- Hardware Specification
- Software Service
- Video Service and Features
- Audio Service and Features
- Network Service and Features
- Conference Service and Features
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Product Overview

AP-MC1000 Video MCU

- IP based Hardware Audio/Video Mixing Solution
- Support Various Conference System Model
- Scalability and Flexibility
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection



Product Overview

AP-MC1000 Video MCU



Product Highlights

AP-MC1000 Video MCU



Benefits and Features

AP-MC1000 Video MCU

- **High Quality Images up to 64kbps and 2Mbps**
- **High-performance Audio & Video Codec Support**
- **Up to 30 frame/sec, 640 x 480(VGA) Resolution(MPEG4)**
- **Signaling Protocols for Video MCU Service**
 - H.323, SIP Multiple Stack Support
- **IP based Network Protocol Support**
- **Various Conference System Model**
- **Video Application**
 - Audio/Video Mixing

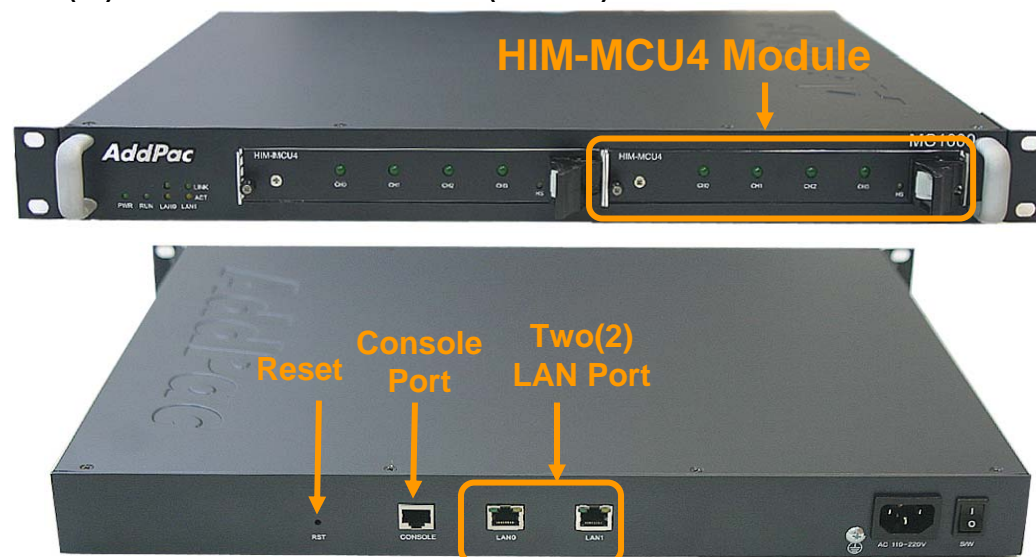
Hardware Specification

AP-MC1000 Video MCU

PowerPC
CPU

High-end
DSP

- High Performance RISC Microprocessor Computing Power
- Built-in High-end Programmable DSP Hardware Architecture
- Main Chassis
 - Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)



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AP-MC1000 Video MCU

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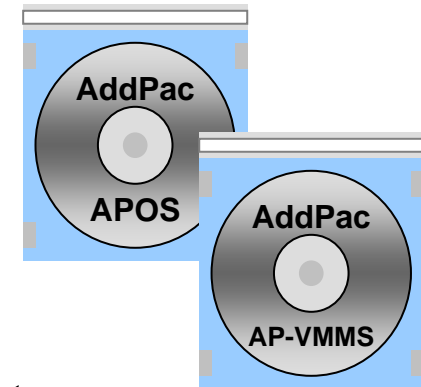
- **MCU Module (HIM-MCU4)**
 - High quality Audio and Video Mixing
 - 4Channel Video/Audio Mixing
 - Compact PCI Style Hot-Swap Function
 - Channel LEDs
 - High-End Programmable DSPs
 - Parallel DSP Processing for High Quality A/V Mixing
 - Concurrent Different Video/Audio Codec Support
 - Cascade Support



Software Service

AP-MC1000 Video MCU

- **Built-in AddPac APOS Internetworking Software**
 - Scalability, Functionality, and Stability Features
 - Video Traffic QoS Control
- **Programmable Video, Audio, and Voice Services**
 - Video Codes, Audio, and Voice Codec
- **Firmware Upgradeable DSP Architecture**
- **Function Support**
- **Industry Standard IP based Network Protocol Features**
- **AP-VMMS (Smart Video MCU Management Software) Solution**
 - Server and Client Architecture
 - Intel Pentium Machine with MS Window Server OS and MS-SQL



Video Service and Features

AP-MC1000 Video MCU

- **High-performance Video Codec Support**
 - H.263, MPEG-4, and H.264
- **Powerful Image Resolution Support**
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- **Up to 30fps at 1Mbps with VGA-Resolution(MPEG-4)**
- **64Kbps to 2Mbps Operating Video Traffic Bandwidth**
- **Rate Control for Video Traffic QoS**
 - Ensuring Optimized Quality
 - Frame Rate with Limited Bandwidth
- **High-end Error Resilient Against Various Packet Error**

Audio & Voice Service and Features

AP-MC1000 Video MCU

- **VoIP based Signaling Protocol Support**
 - H.323, SIP Multiple Signaling Protocol Stack
 - H.323 Gateway, Gatekeeper Support
- **High-performance Audio & Voice Codec Support**
 - G.726, G.711, MP3* Audio Codec
- **Enhanced QoS Management Features for Voice Traffics**

Network Service and Features (cont..)

AP-MC1000 Video MCU

- **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

Network Service and Features

AP-MC1000 Video MCU

- **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

Conference Service and Features (cont..)

AP-MC1000 Video MCU

- Type of Conference
 - Meet-Me (Dial-In) Conference
 - Require that a *range of directory numbers* be allocated for exclusive use of the conference
 - Ad Hoc (On-Demand) Conference
 - using Conference and Join soft key
 - Scheduled Conference
 - Through compatible third-party scheduling applications
- View Mode Configuration

Conference Service and Features (cont..)

AP-MC1000 Video MCU

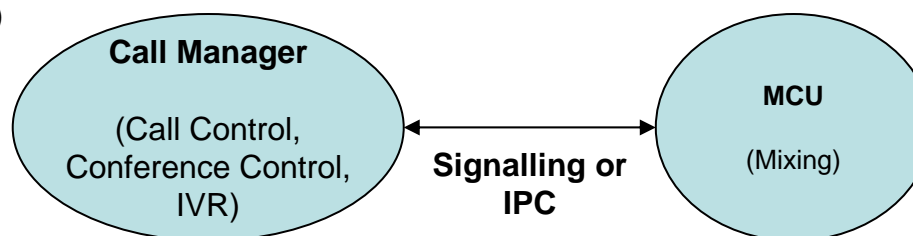
Conference System Model

- Call Manager controlled conference

(1)



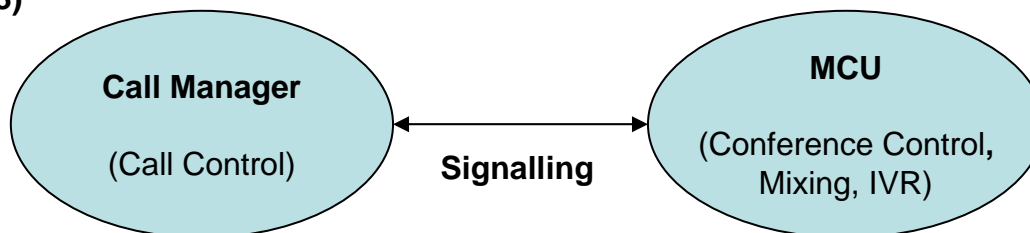
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Using MCU as a Resource

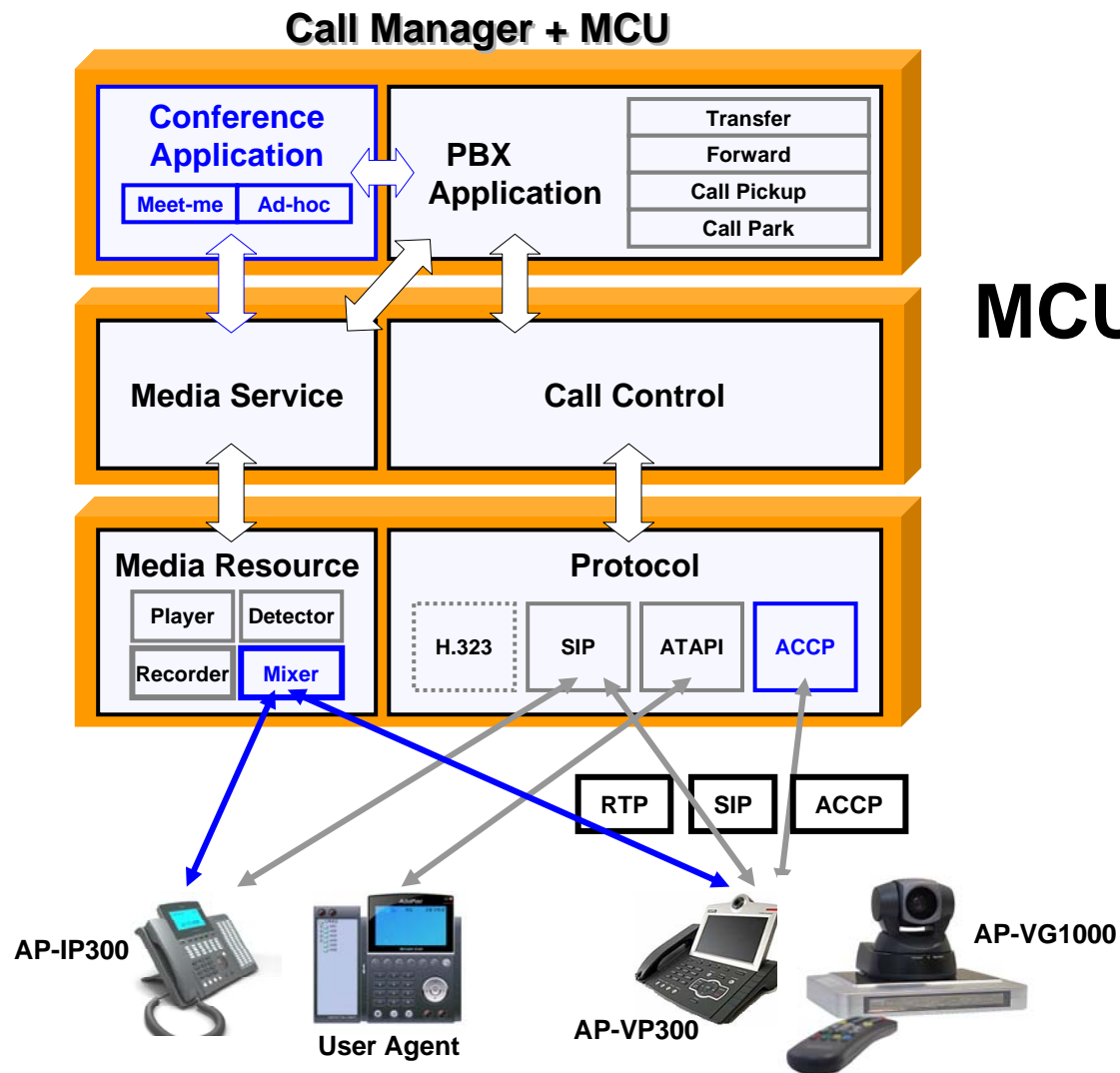
- Interoperate with Stand-alone MCU

(3)



Conference Service and Features (cont..)

AP-MC1000 Video MCU



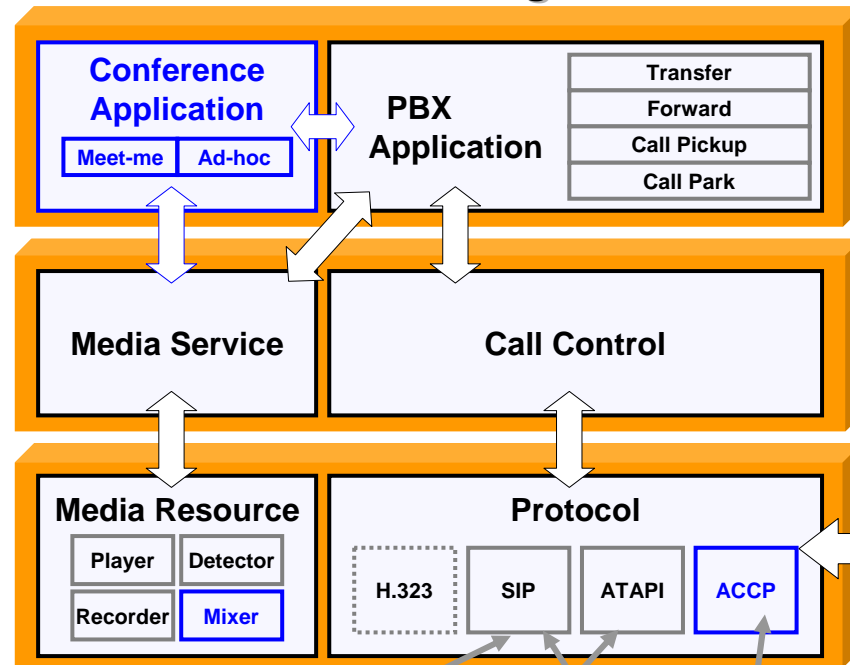
MCU Integrated Model

* ATAPI - AddPac Telephony API
* ACCP - AddPac Client Control Protocol

Conference Service and Features (cont..)

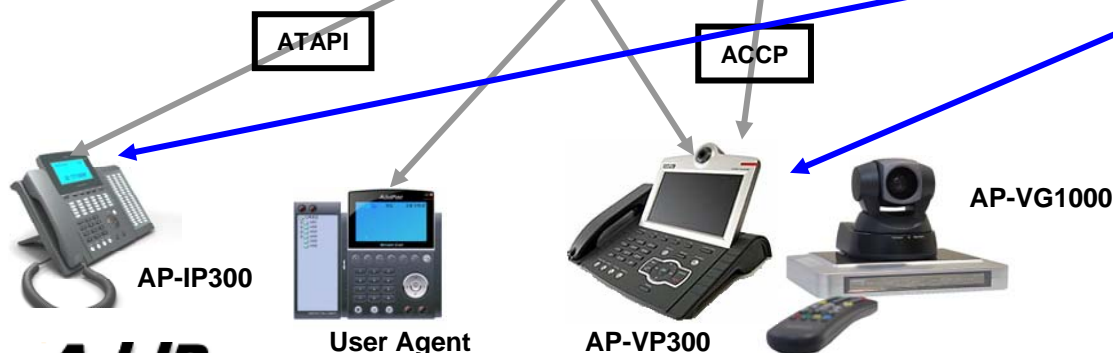
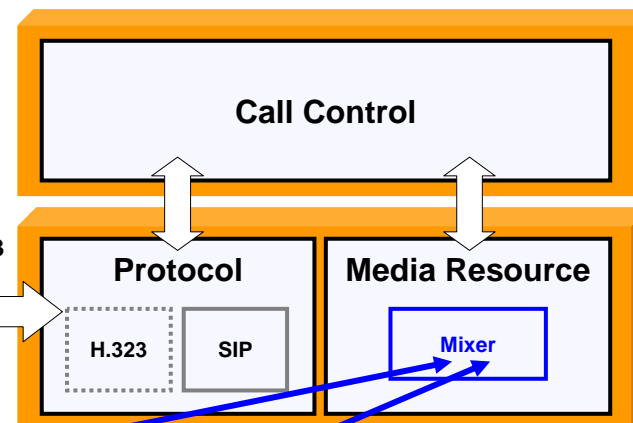
AP-MC1000 Video MCU

Call Manager



Using MCU as a Resource

MCU



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User Agent

AP-VP300

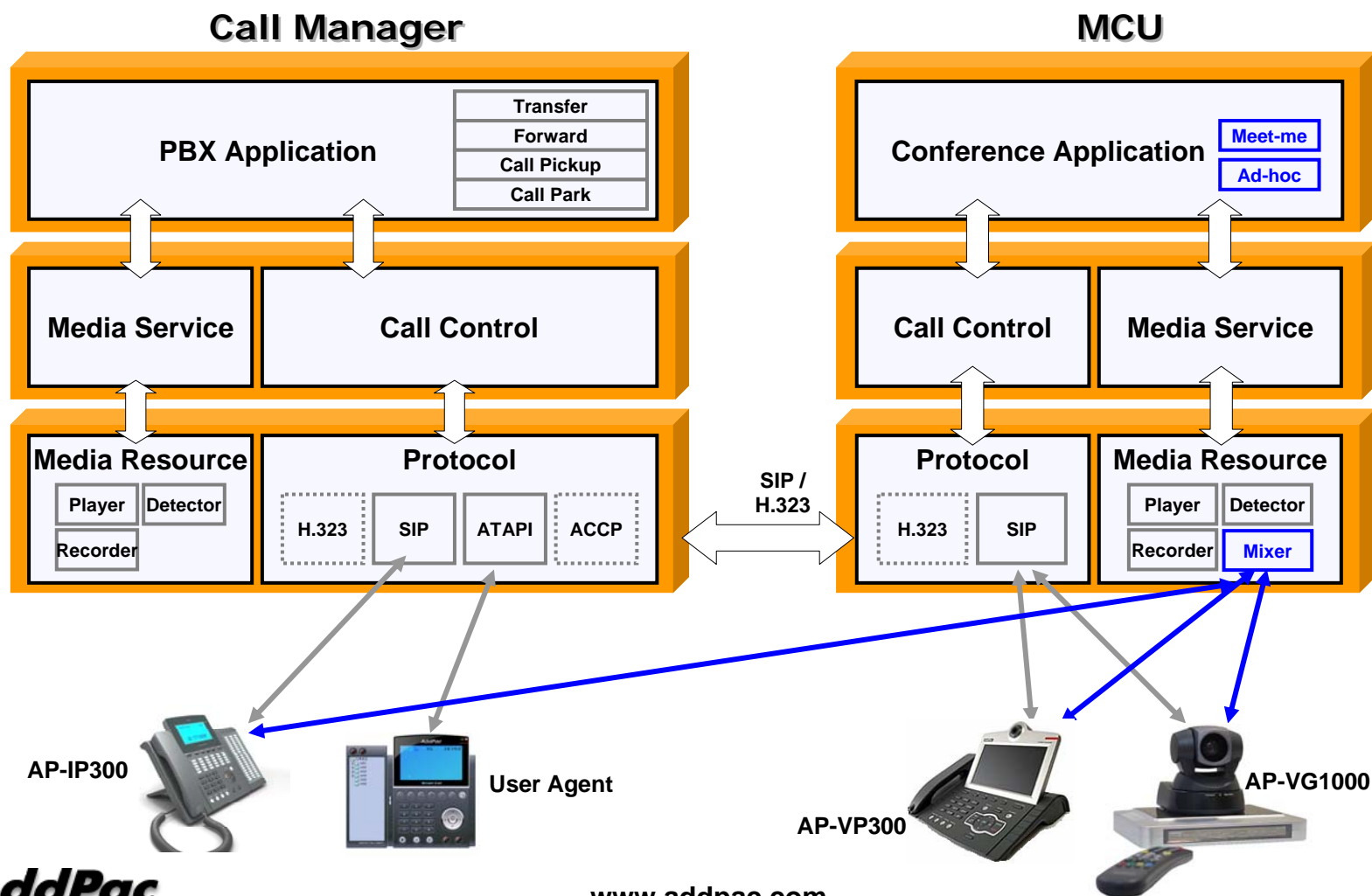
AP-VG1000

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Conference Service and Features

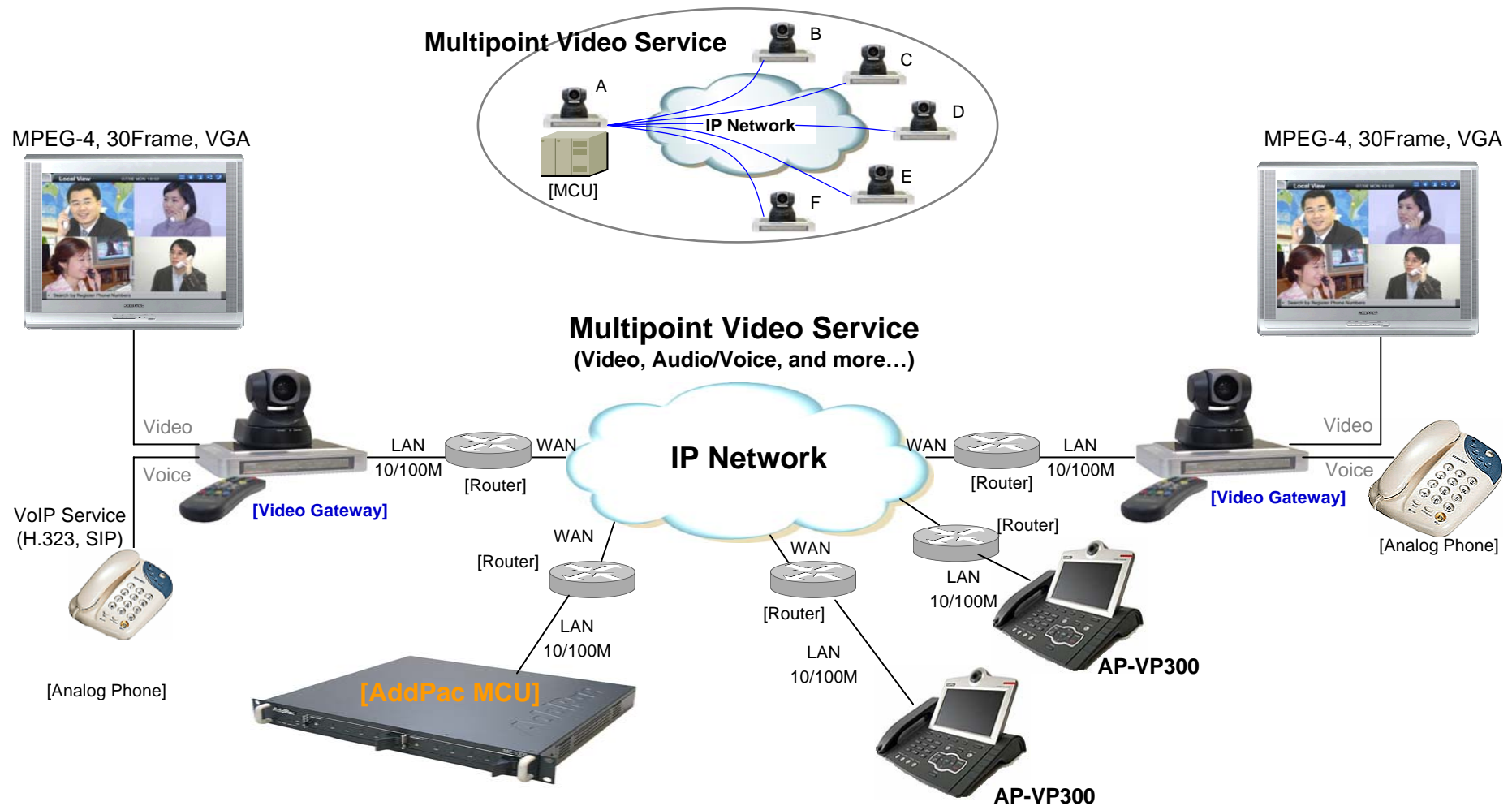
AP-MC1000 Video MCU

Stand-alone MCU Model



AP-MC1000 Video MCU

Network Diagram for Video Conference



Ordering Information

- **AP-MC1000 Video MCU Hardware**
 - AP-MC1000 Video MCU Main Body
 - High-performance RISC CPU with Programmable DSP Architecture
 - 2-port 10/100Mbps Fast Ethernet and 1-port RS-232C Console(RJ45)
 - Two(2) Module Slot for Video MCU Modules
 - Including Network Cable Set
 - Optional Video MCU Modules (HIM-MCU4)
- **Built-in APOS Internetworking Software for AP-MC1000**
- **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

AP-MC1000 Video MCU

Thank you!

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Sales and Marketing

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