Video Conference Phone Legacy IP-PBX Interworking Scheme





AddPac Technology

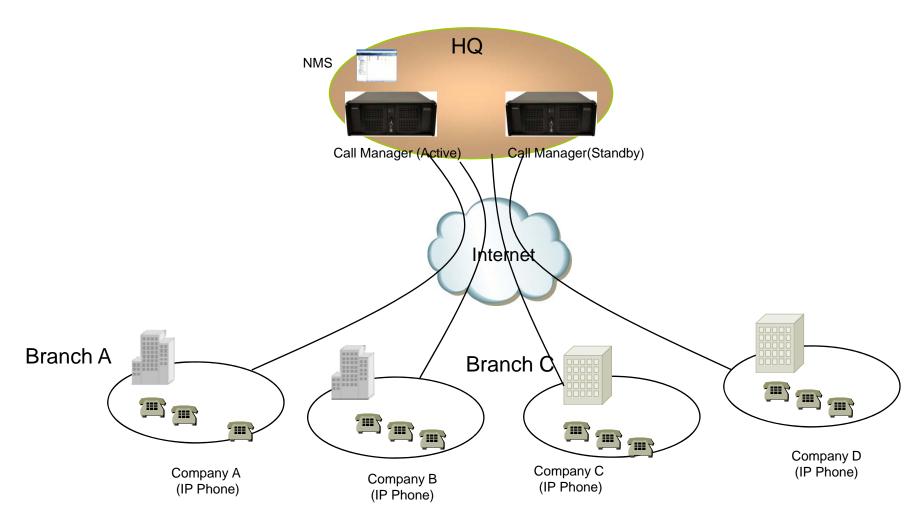
Sales and Marketing

Contents

- Network Diagrams
- Product Specifications
 - IPNext180 SIP Proxy Server for Video Conference
 - AP-VP280DM IP Video Phone for Video Conference
 - AP-MC5500 IP Video MCU : Option

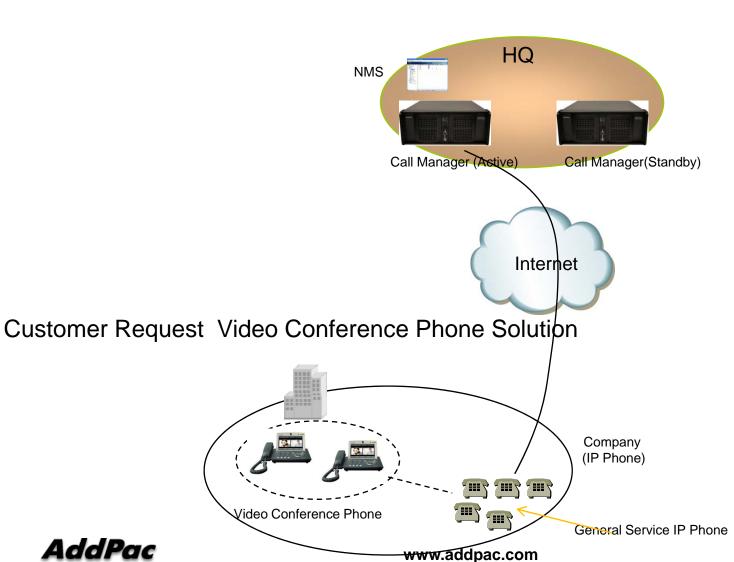


Network Diagram (Legacy IP-PBX)



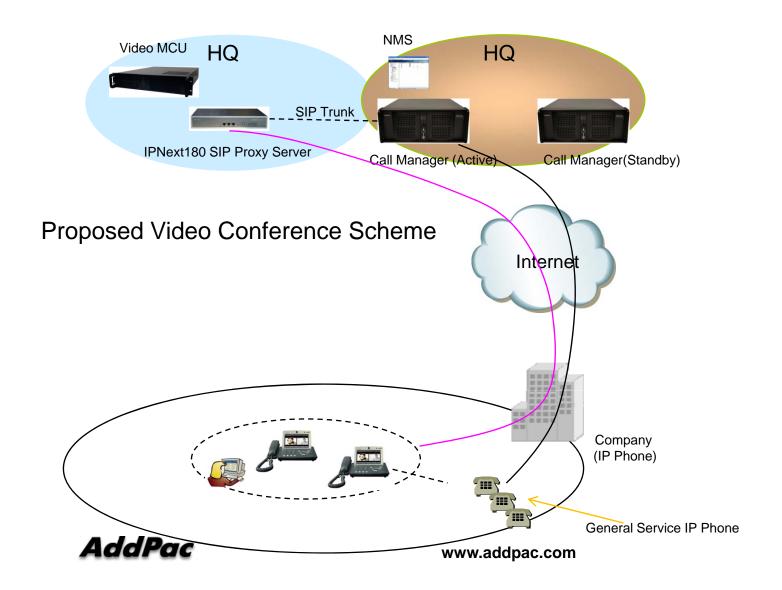


Network Diagram (Legacy IP-PBX)





Network Diagram (Legacy IP-PBX)



Product Solution Overview



IPNext180 SIP Proxy Server for Video Conference Service





Product Overview

- IP based Advanced Hybrid IP-PBX Solution
- IPv4/IPv6 Multimedia Telephony Solution for Small Office
- PSTN Interface (FXO, FXS) Support
- Powerful Management and User Friendly Features
- Fault Tolerant and Scalability Architecture
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- IVR Service with Scenario Editor
- Voice Mailing Service
- Presence Service for High-End IP Key Phone, UC
- RTP Proxy Service for Private IP service
- SIP, H.323 Signaling for Outbound Calls
- Various Call Scenario (Call Pickup, Call Park, Call Transfer, etc)
- Various IP Terminal Support

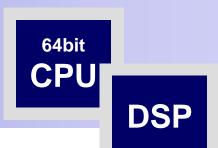




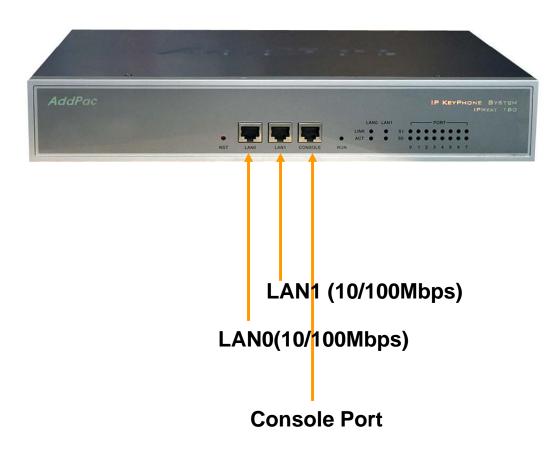
- RISC Microprocessor Computing Power
- Main Chassis
 - Fixed Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console (RJ45)
 - Two(2) VoIP Module Slots for FXS, FXO etc







Front Side

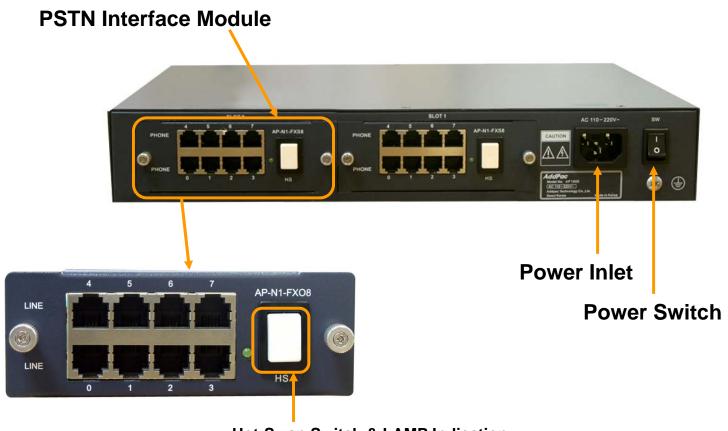






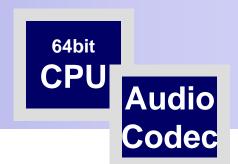
DSP

Back Side



Hot-Swap Switch & LAMP Indication





VoIP Interface Module

AP-N1-FXS8	MANIPON (S)	8-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-FXO8	ONE OF THE PROPERTY OF THE PRO	8-Port FXO Voice Processing Module (8 x RJ11)
AP-N1-FXO4S4	LANE POOR OF THE P	4-Port FXO and 4-Port FXS Voice Processing Module (8 x RJ11)
AP-N1-E1T1	ACT OF THE PARTY O	1-Port VoIP Digital E1/T1 Interface Module(1xRJ45)



Signaling Server

- SIP Application Server, Proxy, Registrar and Location Server (RFC3261)
- Multiple ITSP Trunk with SIP & H.323 Accounts Support
 - IP UA Client Role for Registering to ITSP SIP Server
 - H.323 Gatekeeper Client Role for Registering to ITSP H.323 Gatekeeper Server

IVR & Auto Attendant

- Default Auto Attendant Support
- Interactive Voice Response (IVR)
 - Provides with GUI-based Smart IVR Scenario Editor
 - Upload/Download Scenario by Smart IVR Scenario Editor
 - Supports Multiple Concurrent Scenarios
 - Supports Recordable IVR Prompts

Voice Mail

- Support Voice Mail with IVR
- Access from Remote Site via Trunk Support
- Voice Mail Notification Support



Number & Call Routing

- Trunk Hunting by Preference or Sequential
- Call Hunting by Preference, Simultaneous, Random
- Call Hunting by Chained Hunting Group
- Partition for Address Grading
- Call Class for Call Access Control
- Number Translation Rule for Inbound/Outbound Call
- Centrex with Prefix Support
- Multiple Shared Devices with One Number
- Multiple Numbers on One Device
- Individual Call Park within Park Number Pool
- Group Call Park within a Group or Other Group
- Call Pickup of Ringing Call of Same Group or Other Group
- Call Pickup of Parked Call
- Call Transfer Blind, Consult
- Call Forwarding Unconditional, Busy, No Answer, Voice Mail
- Call Waiting
- Call Swaping
- Call Hold



IP-PBX Advanced Features with AddPac IP Phones

- Multiple Call Handling with Call Status and Calling Line Number and Name
- Plug and Play with Auto Discovery Function
- Softkey Map Download and Control
- Time and Date Setting
- Voice Mail List View
- Parked Call List View
- Call Forward Setting
- Recent Call List View
- Calling Number and Name Identification
- Individual Call Park within Park Number Pool by Softkey
- Group Call Park within a Group or Other Group by Softkey
- Call Pickup of Ringing Call of Same Group or Other Group by Softkey
- Call Pickup of Parked Call by Softkey
- Call Transfer Blind, Consult by Softkey
- Call Waiting Indication
- Call Swaping by Softkey
- Call Hold by SoftKey
- Conference Control



User & Device Management

- LDAP (Light weight Directory Access Protocol) Support
 - Supports Hierarchical Organization
- Auto Discovery of IP Phones & Video Phones
- Monitoring Status of Phones

• Miscellaneous*

- Distinctive Ring by Calling User
- Auto Config & Upgrade
- Personal Directory
- Downloadable Ring
- Do not Disturb



Conference

- G.711 (4-party Conference, 2 session): Basic
- G.711/G.729/G.723 (4-party Conference, 2session) Internal MCU Module : Option
- Ad-hoc Conference
- Dial-Out Conference
- Meet-me Conference
- Multiple External MCU support(Video, Audio, etc): AddPac AP-MC1000, etc
- Conference Chair and Participants Management

Music & Announcement

- Music on Hold
- Replaceable Announcements
- Dialing Music / Tone Service







High Quality, High Resolution





High Quality, High Resolution





Product Overview

- IP based Video Phone Solution
- High-Quality Video, Audio, and Voice Service
- High Performance Programmable Video DSP
- Video Telephony and Videoconferencing Service Features
- H.323 and SIP Dual VoIP Signaling Protocols
- H.264/H.263 Video Codec Support
- Various Call Scenario Support
- Call Status Monitoring Support
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection



Benefits and Features

- 7 Inch LCD Display, Touch Screen
- External Video Interface
 - Composite (RCA) Video In/Out, S-Video Out
 - Audio (RCA) In/Out
- High-performance Video Codec Support
 - H.263, MPEG-4, and H.264
- High-performance Audio Codec Support
 - G.722(16KHz), G.711, G.729, G.723.1 ,etc
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and VGA(640x480)
- Up to 30fps at 1Mbps with VGA-Resolution(H.264)
- Video Conference Call Support (AddPac MCU Inter-working)
- SIP, H.323 Signaling Support
- Rate Control for Video Traffic QoS
 - Ensuring Optimized Quality, Frame Rate with Limited Bandwidth
- High-end Error Resilient Against Various Packet Error



- High-end Programmable DSP Hardware Architecture
- Video Input Interface
 - RCA Video Input
- Video Output Interface
 - RCA Video Output, HDMI Video Output
- High quality Audio and Voice Interface
 - Stereo Audio Input & Output Connector
- Network Interface
 - One(1) 10/100Mbps Fast Ethernet
 - One(1) RS-232C Console
 - One(1) USB Interface
- PSTN Interface
 - One(1) FXO(RJ11) interface (Option)
- Power Supply
 - External Power Adaptor
 - PoE (Power over Ethernet) : Option



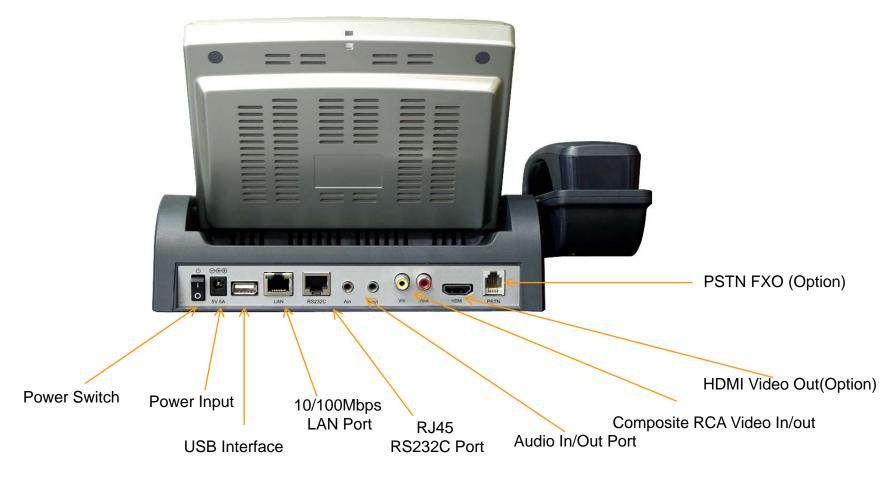














Video Service and Features

- Various Video Networking Interface
 - Composite (RCA), HDMI Output
- 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(H.264)
- 256Kbps to 1Mbps 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



AP-MC5500 IP Video MCU







Product Overview

- IP based Multipoint Audio/Video Mixing Solution
- Support Various Conference System Model (Dial-out, Add-Hoc, Meet-me)
- Scalability and Flexibility
- Large-Scale 64 Party IP Video MCU
- Multi-User/Multi-Session Video Conference Support
- Call Manager Function Included (Option : External Call Manager Support)
- Support Various Video Codec (H.264, H.263, MPEG4, etc)
- High-performance Video, Audio, and Voice Service
- Firmware Upgradeable Architecture
- Video Solution with Outstanding Network Service Capability
- Audio/Video Privacy Protection



Video Service and Features

AP-MC5500 Video MCU

- High-performance Video Codec Support
 - H.263, MPEG-4,H.264
- Powerful Image Resolution Support
 - QCIF(176x144), CIF(352x288), QVGA(320x240), and
 VGA(640x480), HD(1280x720), Full HD (1920x1080), etc
- Up to 30fps at with Full HD-Resolution(H.264)
- 256Kbps to 10Mbps 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

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Audio & Voice Service and Features

AP-MC5500 Video MCU

- VoIP based Signaling Protocol Support
 - SIP, H.323* based Signaling Protocol Stack
- High-performance Audio & Voice Codec Support
 - G.726, G.711, G.722, G.722,1, etc, Audio Codec
- Enhanced QoS Management Features for Voice Traffics



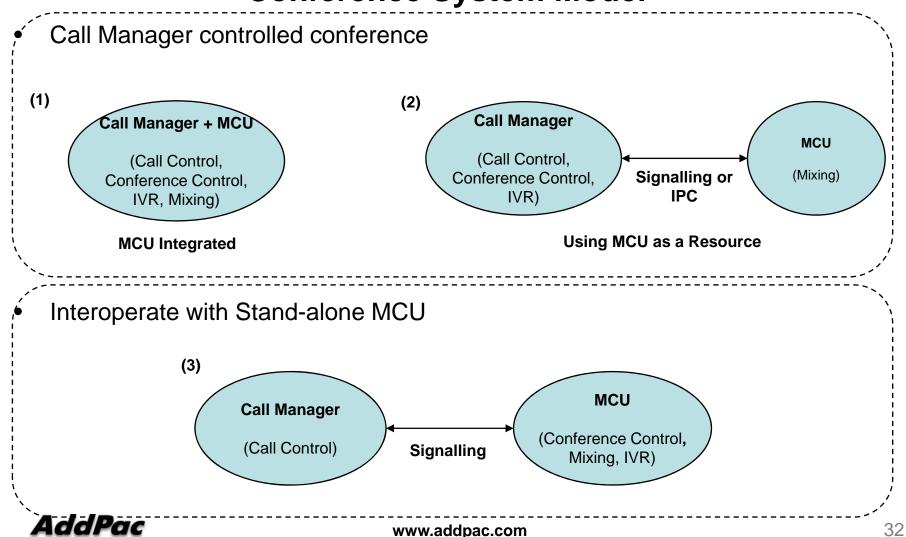
AP-MC5500 Video MCU

- 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

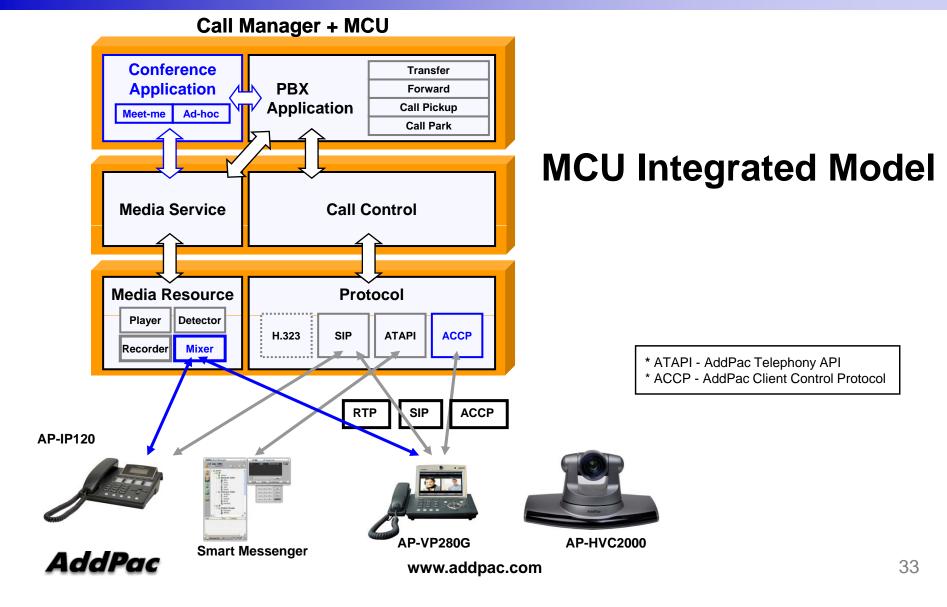


AP-MC5500 Video MCU

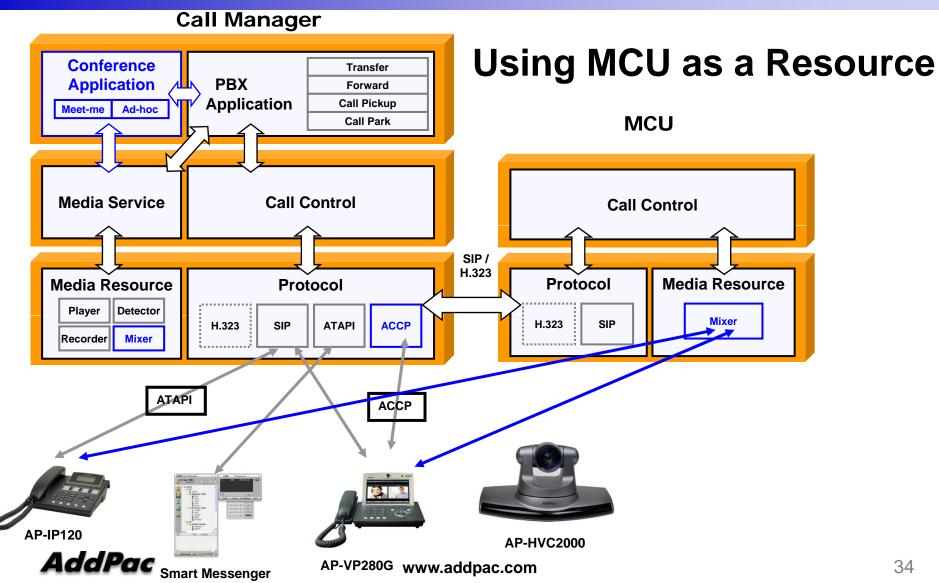
Conference System Model



AP-MC5500 Video MCU



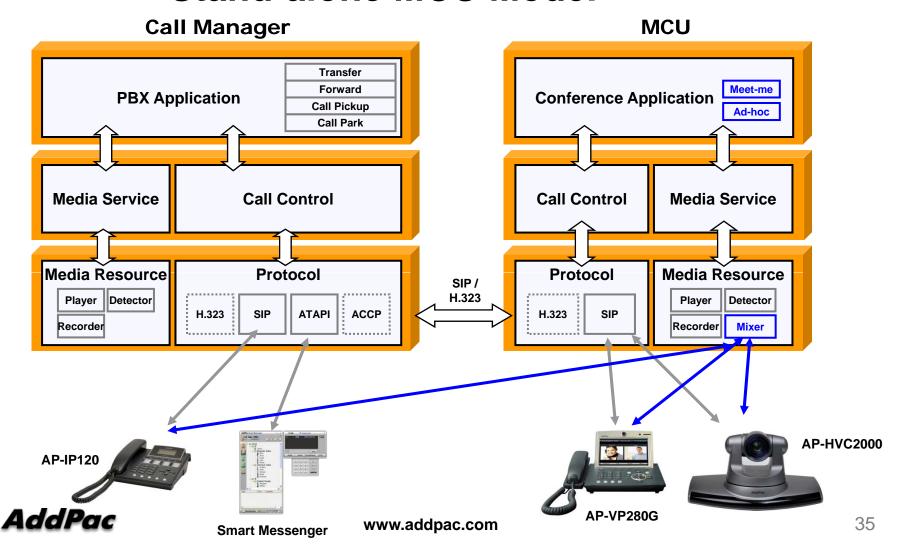
AP-MC5500 Video MCU



Conference Service and Features

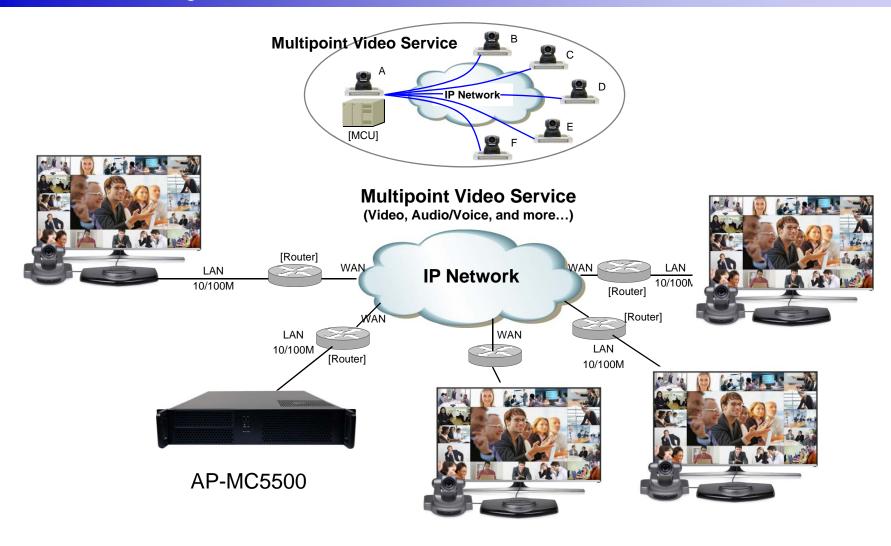
AP-MC5500 Video MCU

Stand-alone MCU Model



AP-MC5500 IP Video MCU

Network Diagram for Video Conference





Thank you!

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