Next Generation IP Video Phone

AP-VP280

AP-VP280 IP Video Phone

AP-VP280 is an IP video phone that allows you to make high quality and high resolution video communications by using the Internet. This product supports a video conference, point-to-point video communication, VoD, IPTV, network surveillance, and aid to communication access for the disabled optimally through the latest audio/video codecs and a variety of AV I/O interfaces. The criteria of choosing a video phone are high quality audio and video.

AP-VP280 IP video phone is designed to deliver high quality video telephony service over IP network. This new video phone delivers the various IP communication solution, taking a full advantage of new 'all-in-one concept' with voice, audio and video application integrated. It provides not only cutting-edge features such as AV in/out interfaces, QoS functions, public IP sharing but also a wide range of multiple VoIP signaling such as SIP, H.323 protocols and H.263, MPEG4, H.264 video codecs.

Designed on the foundation of AddPac's field proven voice/video processing technology, this high performance and versatile IP video phone provides unmatched clear video with high resolution 7 inch VGA(640x480) LCD panel. It also ensures the optimal video quality with consistency by leveraging 'rate control' for limited bandwidth and high end 'resilience' for packet errors. AP-VP280 realized state-of-the-art service quality, supporting max 30 fps of VGA (640×480) in case of MPEG4 video codec. Local display support VGA image format.

Not only IP based video communication, AP-VP280 is an integrated, feature-rich network equipments delivering routing, NAT/PAT, DHCP server/relay, public IP sharing, PPTP Tunneling for private IP and QoS. In today's mixed network of xDSL, Cable, FTTH, Metro Ethernet, Lease line and dynamic IP environment, not only the ample network service features, but also high-end QoS and security features are requested. Based on two 10/100Mbps Fast Ethernet ports, AP-VP280 offers integrated network and security service of LAN-to-LAN routing, bridge and NAT/PAT.

AP-VP280's network protocol delivers the enhanced multimedia solution on the IP based broadband networking environment to implement the optimal integration of the solutions. Integrated with AddPac's various solutions, AP-VP280 IP video phone provides diverse IP communication services such as VoD, IP multimedia broadcasting, multipoint video conferencing as well as a full suit of IP video telephony functionality. Thus, customers can best optimize their network environment to maximize benefit from convergence of multimedia communication.

Product Highlights

- New 'All-In-One' Concept with Video, Voice, Audio, Data Integrated for Complete Multimedia Communication System
- Unmatched Video Quality for Interactive Communication in 30 fps of VGA(640×480), Supporting Both Encoding and Decoding
- LCD Display : 7 Inch VGA(640x480) Display
- Optimal Video Quality Avoiding Bandwidth Loss On Asymmetric Network
- Various Video In/Out Interfaces for a Wide Range of External Devices
- IPv4/IPv6 Dual Stack Support
- Easy System Firmware Upgrade On the Basis of High Performance Embedded RISC CPU and Programmable DSP Chipset
- Two(2) 10/100Mbps Fast Ethernet Support
- Support the Latest Codec Algorithms Such As H.263, MPEG-4, H.264 for High Quality Video/Voice/Audio
- G.722, G.711,G.729,G.723.1, etc Voice Codec.
- Dual Monitor Emulation (Video Communication, Broadcasting Simultaneous Service)
- OSD (On Screen Display) for Quick and Easy Setup
- Easy-To-Use Hot Function Keys
- Remocon (option) for VoD service, IP Multimedia Broadcasting Service Operation, General and Network Management, Local/Remote Site Control
- EMS Solution for Network Maintenance
- APOS Guarantees Scalability, Reliability, Stability

AP-VP280 Applications

- Video Conferencing System
- IP Voice/Video Broadcasting System
- VOD (Video on Demand) System
- Video Based IP-PBX Solution
- IP Based Multimedia Solution
- Network DVR Viewer

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General Hardware Specifications

Main Chassis	Embedded Hardware Chassis
CPU	High Performance RISC Integrated Processor
DSP	High Performance DSP (Digital Signal Processor)
Memory	512KB Boot Memory 8MB System Memory (Flash Memory) 64MB Main Memory (SDRAM)
Network Interface	2-ports 10/100Mbps Ethernet (LAN 0, LAN 1)
PSTN Interface	1-port PSTN/FXO Voice Interface (Option)
Console Interface	1-port RS-232C Interface for CLI and External Camera Control
USB Interface	1-port USB Interface (USB 1.1 Host Mode)
Operation Environment	Temperature 0℃ ~ +45℃(operating), -40℃ ~ +85℃ (storage), Humidity 5% ~ 95%
Power Supply	AC110~220VAC 50/60Hz Free Voltage, 5V 5Amp.
Demension	50mm x 270mm x 268mm (H x W x D), 1.4Kg
Remote Controller	Option

Audio/Video Hardware Specifications

Color TFT LCD	Built-in 7" Color TFT LCD with Touch Screen
Audio/Video Interface	1-CH Composite RCA Video Output 1-CH Composite RCA Video Input 1-CH S-Video Output 1-CH 3.5mm Audio Input 1-CH 3.5mm Audio Output
Color Video Camera	Built-in CMOS Color Camera 330 TV Line Resolution 510(H) x 492(V) NTSC Picture Elements 1/60s ~ 1/1000,000s NTSC Electronic Iris
Microphone	Built-in Internal Microphone

Audio Service and Signaling Protocol Features

Voice and Audio Codec	G.711, G.723.1, G.726, G.729 and G.722
VoIP Signaling Protocol	SIP/H.323 VoIP Signaling Protocol (Dual Stack) ITU-T H.323 Gateway, Gatekeeper Support SIP Proxy Server Interoperability
Echo Cancellation	G.165 and G.168 Compliant
Voice Processing	VAD, CNG, Dynamic Jitter Buffer Operation
DTMF	Detection and Generation, RFC 2833 Compliant
Telephone Features	On-screen Dial Pad, Caller ID & Hold
Voice QoS	Enhanced QoS Management for Voice Traffic

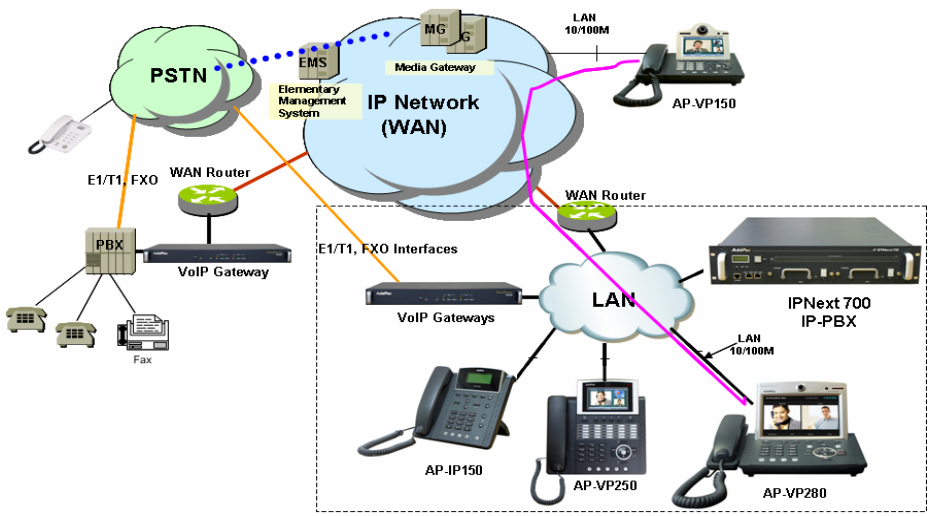
Video Services and Features

Video Codec	MPEG4, H.263, JPEG, and H.264 (MPEG4 part 10)
Resolution	QCIF(176x144), CIF(352x288), QVGA(320x240), VGA (640x480)
Frame Rate	Up to 30fps with VGA-Resolution (MPEG-4)
Operating Bandwidth	64Kbps ~ 4Mbps
Video Service	Compatibility with AddPac MCU with Video Mixing, Meet-Me, Add-Hoc, Dial-Out Conferencing Signaling Support, and Control
Dual Operation Features	Dual Monitor with Independent Display and Emulation
Video QoS Features	Enhanced QoS Management for Video Traffic High-end Error Resilience Support on IP Network Rate Control for Best Video Quality Frame Rate Control at a Limited Bandwidth Video Error Concealment Service
Video Codec Interoperability	Polycom, Tandberg, and Sony Video Conferencing Products with Standard H.323, MPEG4 based Video Codec, and so on
Control and Setting	OSD (On Screen Display) and Remote Commander
Major Video Application	Voice and Video Telephony, Video Conferencing, Audio/Video Broadcasting, VoD Service, etc.

WAN, LAN, IP Services and Other Features

WAN Protocol	Point-to-Point Protocol (PPPoE) for ADSL
IP Routing	IPv4 and IPv6 Dual Stack Routing, Static and IEEE 802.1Q VLAN Routing, various IP Routing Support
Network Management	Standard SNMP Agent (MIB v2) Support, Console, Telnet, Web Based Management, Remote Firmware (APOS) Upgrade via FTP/TFTP Support
Security Features	IP Packet Filtering, Access List, Access Control and Data Protections, Enable/Disable for Specific-Protocols Multi-level User Account Management
Operation & Management	Configuration Backup and Restore for APOS Management, Debugging and Diagnosis Features, System Booting/Rebooting through Watch-Dog, etc.
Other Features	DHCP Server and Relay, Network Address Translation (NAT), Port Address Translation (PAT), IEEE Standard Transparent Bridging, CLI, Load Balancing, DNS Proxy, UPnP, MAC Address Filter Service etc.

AP-VP280 Network Diagram



Ordering Information

- AP-VP280 IP Video Phone (w/o FXO Interface)
- AP-VP280P IP Video Phone (with FXO Interface)
- CAB-LAN Ethernet Cable
- REMOCON (option)

AddPac

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