High-End IP Video Conference Solution

AP-VC2000

AP-VC2000 IP Video Conference System

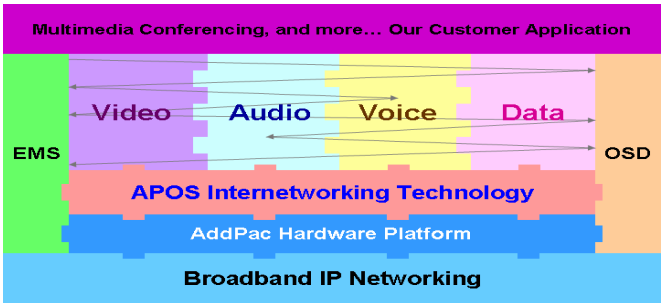
AP-VC2000 Video Conference System delivers a new and powerful IP based video communication by simply connecting televisions, external video camera and ordinary telephones. Designed on firmware upgradeable, high-performance DSP, AP-VC2000 equipped with the latest audio/video codec, AV In/Out interfaces realizing complete Internet video telephony, video conferencing, VoD (video on demanding) applications and AV broadcasting system in one platform. This device provides the dual external video camera In/Out interface and built-in 4 party video MCU for supporting various video communication applications.

AP-VC2000 video conference equipment supports the dual video input/output channel for effective video conferencing. The first video channel of AP-VC2000 is equipped with RCA, S-video and component (Y, Pb, Pr) video output interface for connecting televisions, and with RCA, S-video for external video camera. The second video channel of AP-VC2000 is equipped with D-sub video in/out interface in addition to video features of the first channel. The D-sub interface of second channel can be used for document sharing via Notebook PC VGA In/ Output Interface.

In case of MPEG-4, AP-VC2000 supports max. 30 frames of VGA(640×480) images which is considered promising for the high quality video application. The component video output interface of AP-VC2000 supports the 480P, 720P (1280x720) HD video display. In this HD display mode of AP-VC2000, VGA level video image from remote site can be display at HDTV without video downscale. Also AP-VC2000 provides the state-of-the-art video MCU features of AddPac Technology. AP-VC2000 ensures the best performance of the MCU that supports a 4-party video conference. This product can efficiently control or manage the features (e.g. layout change) of video MCU by CLI(command line interface) via telnet(or RS232) or smart multimedia manager.

Designed on programmable high-performance RISC CPU and high performance DSPs, AP-VC2000 is capable of adopting new capabilities and improvement by downloading firmware from website or with its auto-upgrade option as the customers' needs grow. Using this firmware upgrade S/W features and solution (ex, VPMS), new coming video/audio codecs, VoIP signaling protocols and network protocols will be supported.

AddPac Technology's VoIP gateways, Video Phone, IP-PBX, IP Broadcasting System, Network DVR, VoD system have been highly appraised with their advanced performance and reliability by worldwide customers. With its years of experience and know-who would make AP-VC2000 as the ultimate solution for next-generation video communication.



APOS Internetworking Software

APOS™(AddPac Internetworking Operating System) is AddPac's unique software which supports data, voice, video and security. It provides scalability, reliability, stability and QoS for internetworking solutions. It also provides optimized performance and industry standard network functionality with easy-to-use, easy-to-installation and maintenance.

Main Features

- AP-VC2000 is a high-end video conference equipment that allows you to build a multimedia system in order to integrate voice, audio, and data based on video communications.
- Ensures high video quality bi-directionally by processing VGA-level video by 30 frames per second. (Supports both video encoding and decoding.)
- Supports the state-of-art codec algorithm for voice and audio services as well as video codecs such as H.263, MPEG-4, and H.264.
- Video MCU(H.263,MPEG4) for up to four Party
- Ensures the best voice quality on a regular IP-based Internet network that provides an asymmetrical bandwidth.
- Provides various video output interfaces for easy physical interfacing with external equipments. (RCA, S-Video, YPbPr Component)
- Provides FXS VoIP Interface for Analog Phone.
- Provides the USB Interface for Wireless LAN, USB Memory, etc
- Equipped with an advanced RISC embedded microprocessor and programmable DSP hardware chipset for easy system upgrade
- Supports document sharing and remote PC control.
- Supports On-Screen Display (OSD) for fast operation settings.
- Allows you to enable settings by operating touch screen and ensures convenient device control.
- Allows you to set up configuration and your network environment by operating the remote control. Ensures easy local and remote control and operation for VoD and IPTV services.
- Provides the EMS solution for network maintenance and administration.
- Ensures extensibility, reliability, and authenticity since the APOS inter-networking software of AddPac is installed.

AP-VC2000 Applications

- IP Video conferencing system
- IP voice/video broadcasting system
- Remote training, medical treatment, and surveillance systems
- Video on Demand (VOD) system
- Multimedia solution based on IP networking

AP-VC2000

High-End IP Video Conference

Hardware Specifications

Main Chassis	Embedded Hardware Chassis
CPU	High Performance RISC Integrated Processor
DSP	High Performance DSP (Digital Signal Processor)
Memory	512KB Boot Memory, 16MB Flash Memory 128MB Main Memory
Network Interface	2-ports 10/100Mbps Ethernet (LAN 0, LAN 1)
Voice Interface	1-port FXS Analog Voice Interface
Console & USB	1-port RS-232C Console Interface 1-port USB Interface
Audio/Video Interface (CH0)	1-CH Composite RCA Video Input and Output 1-CH S-Video Input and Output 1-CH Component Video (Y, Cr, Cb) Input and Output 1-CH 3.5mm RCA Audio Input 1-CH RCA Audio Output Left and Right
Audio/Video Interface (CH1)	1-CH Composite RCA Video Input and Output 1-CH S-Video Input and Output 1-CH D-sub RGB Video Input and Output 1-CH Component Video (Y, Cr, Cb) Input and Output 1-CH 3.5mm RCA Audio Input 1-CH RCA Audio Output Left and Right
Operation Environment	Temperature 0℃ ~ +45℃(operating), -40℃ ~ +85℃ (storage), Humidity 5% ~ 95%
Power Supply	AC110~220VAC 50/60Hz Free Voltage, 5V 5Amp.
Demension	52mm x 360mm x 202mm (H x W x D), 1.5Kg

Video Services

Video Codec	MPEG4, H.263, JPEG, and H.264
Resolution	QCIF(176x144), CIF(352x288), QVGA(320x240), VGA(640x480)
Frame Rate	Up to 30fps with VGA-Resolution (MPEG-4)
Operating Bandwidth	64Kbps ~ 4Mbps
MCU Service	Built-in 4 Party MCU function with Video Mixing, Meet-Me, Add-Hoc, Dial-Out Conferencing Signaling Support
Dual Operation Features	Dual Monitor with Independent Display and Emulation
Video QoS	Enhanced QoS Management for Video Traffic

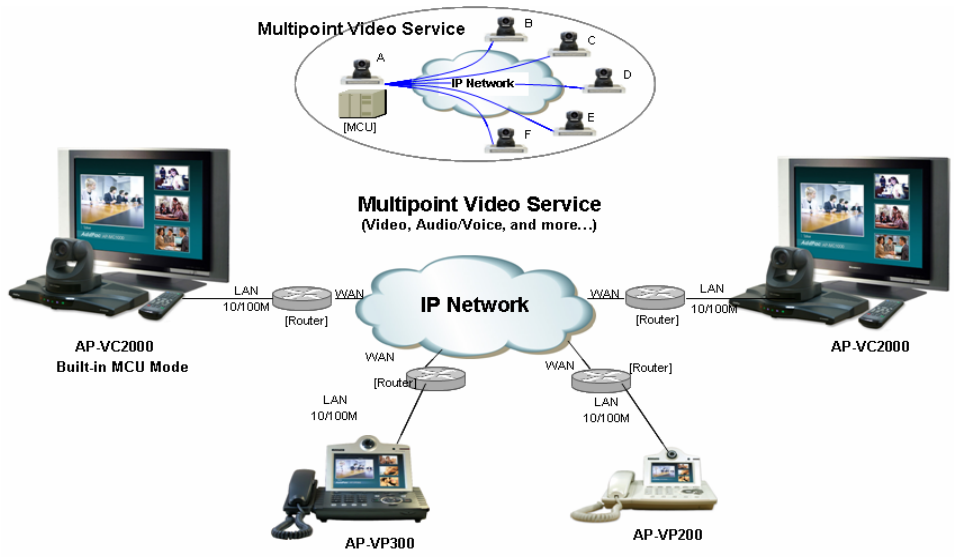
Audio Service and Signaling Protocol Features

Voice and Audio Codec	G.711, G.723.1, G.726, G.729
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
FAX Support	T.38 G3(Group 3) FAX Relay
DTMF	Detection and Generation, RFC 2833 Compliant
Telephone Features	On-screen Dial Pad, Caller ID & Hold
Voice QoS	Enhanced QoS Management for Voice Traffic

WAN, IP Routing 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, RIP v1/v2, RIPng, OSPF v2/v3, BGP v4, Multicast IGMP Protocol 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, Auto-disconnect for Telnet/Console Sessions, PPP User Authentication Support (PAP/CHAP)
Operation & Management	Performance Analyzing (Process, CPU, Interface), Configuration Backup and Restore for APOS Management, Debugging and Diagnosis Features, System Booting/Rebooting through Watch-Dog, Data Logging Features, IP Traffic Statistics through Accounting Support
Other Features	DHCP Server and Relay, Network Address Translation (NAT), Port Address Translation (PAT), IEEE Standard Transparent Bridging (Spanning Tree Bridging and Concurrent Routing Bridging Protocol), Network Time Protocol (NTP), Cisco Style Command Line Interface (CLI), DNS Proxy, UPnP, MAC Address Filter Service etc.
Control and Setting	OSD (On Screen Display) and Remote Commander

Network Diagram



Ordering Information

- AP-VC2000 IP Video Conference System
- AP-REMOCON Remote Control
- CAB-LAN Ethernet Cable
- CAB-CON RS-232C Console Cable
- Video Cable Video Cable for TV connecting
- Camera(Option) SONY EVI-D70

AddPac

www.addpac.com

AddPac Technology Co., Ltd.

2,3,5F Jeong-Am Bldg., 769-12, Yeoksam-Dong Kangnam-Gu, Seoul, 135-080, Korea

Tel: (02)568-3848, Fax: (02)568-3847, e-mail:sales@addpac.com