

## AP2650 IP Centric VoIP Gateway Powerful Communication Method

### Product Highlights

- Powerful RISC CPU Architectures
- 4-Slot for Digital & Analog Voice Module
- Dual AC Power Units for System Failure
- 1-Slot for changeable CPU Module including 2-Port 10/100Mbps Fast Ethernet Interface & 1-Port Console Interface
- 32 LEDs Incorporated on the Front Panel Indicating Operational Status
- Highly Integrated System Supporting Analog 32 Channels of VoIP Calls
- FXS, FXO, E&M and Digital E1/T1 Voice I/O Module
- SIP, H.323, and MGCP Concurrent Triple VoIP Signaling Protocol Stack
- Multi-protocol Routing Solutions between WAN and LAN Access with H.323 based VoIP Protocol
- Support Voice Processing Features
  - VAD, DTMF, CNG, G.168, and T.38 G3 Fax Relay
  - G.723, 729A, 711 Voice Compressions
- APOS Internetworking Software to provide Scalability, Functionality, Stability, and QoS Control for AddPac VoIP Gateway
- High-performance IP-Routing Capability : Static, RIP v1/2, OSPF v2, etc.
- Traffic Queuing, and SNMP MIB v2 for Network Management Features
- Standard & Extended Access List for Security Functions
- Essential Scalability Features such as DHCP Server & Relay, NAT/PAT, IEEE Transparent Bridging, and Debugging/Diagnostics, etc.
- Remote SW Upgrade using FTP & TFTP
- Cisco Style Command Line Interface (CLI)
- Standard 1Ux19" Rack Mountable Chassis



VoiceFinder AP2650 is a BcN (Broadband convergence Network) VoIP gateway which extends the benefit of Analog and Digital gateways. AP2650 has changeable CPU module and maximum 32 ports of analog, digital E1/T1 voice interface modules.

The main feature of AP2650 is that it can adopt maximum 32 ports of analog voice interface and digital E1/T1 voice modules concurrently. It is designed to provide strong features of media gateways for IP-PBX by supporting several ports for analog interface and digital E1/T1 voice modules and also it acts as a media gateway which connects PSTN switch as well.

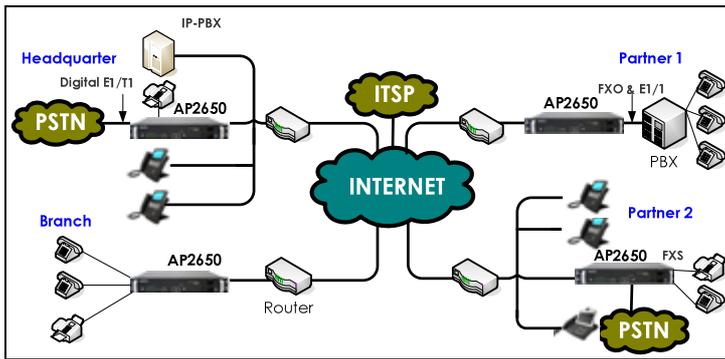
AP2650 in the aspect of hardware architecture is designed to provide a high performance service as a media gateway. Changeable CPU module provides several LEDs in front panel so that various operational status of VoIP ports can be checked. Also this CPU module is flexible for multi-media applications such as video. Another main feature of AP2650 is that it provides power redundancy function in the case of power failure.

Various VoIP gateways of AddPac are approved for its capability and reliability in world wide markets. This AP2650 will be an excellent choice for BcN (Broadband Convergence Network) environment by supporting concurrent triple stack such as H323, SIP, MGCP and QoS

### APOS Internetworking SW for AddPac VoIP Gateway

AddPac Operating System (APOS) is best network equipment software to provide scalability, reliability, stability, and QoS for VoIP & Video inter networking solutions. APOS also provides optimized performance and industry standard network functionality with easy-to-use, easy-to-installation, and maintenance.

## AP2650 VoIP Gateway Network Diagram



- ITU-T H.323 Gateway, Gatekeeper Support

### Network Managements

- Traffic Queuing and Frame-Relay Flow Control
- Standard SNMP Agent (MIB v2) Support
- Remote Management using Console, Rlogin, Telnet
- Web based Managements using HTTP Server

### Security Functions

- Standard & Extended IP Access List
- Access Control and Data Protections
- Enable/Disable for Specific Protocols
- Multi-Level User Account Management
- PPP User Authentication Supports
  - Password Authentication Protocol (PAP)
  - Challenge Handshake Authentication Protocol (CHAP)

### Operation & Managements

- System Performance Analysis for Process, CPU, Connection I/F
- Configuration Backup & Restore for APOS Managements
- Debugging, System Auditing, and Diagnostics Support
- System Booting and Auto-rebooting with Watchdog Feature
- System Managements with Data Logging
- IP Traffic Statistics with Accounting

### Other Scalability Features

- DHCP Server & Relay Functions
- Network Address Translation (NAT) Function
- Port Address Translation (PAT) Function
- Transparent Bridging (IEEE Standard) Function
  - Spanning Tree Bridging Protocol Support
  - Concurrent Routing and Bridging Support
- Cisco Style Command Line Interface (CLI)
- Load Balancing Support
- Network Time Protocol (NTP) Support
- Remote Upgrade for APOS Management using FTP/TFTP

### Ordering Information

- AP2650-01 : AP2650 Standard Configuration
  - Two(2) Fast Ethernet, One(1) Console
  - RISC CPU, 8MB Flash, 64MB SDRAM
  - APOS v8.xx with Operation Manual
  - Including CAB-LAN, CAB-CON
- AP2650-FXS16 8-Port FXS Interface Module X 2
- AP2650-FXO16 8-Port FXO Interface Module X 2
- AP2650-E&M16 8-Port E&M Interface Module X 2
- AP2650-FXS8O8 4-Port FXS & 4-Port FXO Module X 2
- AP2650-1E1 Digital Voice 1E1 Module X 1
- AP2650-1T1 Digital Voice 1T1 Module X 1
- AP2650-2E1 Digital Voice 2E1 Module X 1
- AP2650-2T1 Digital Voice 2T1 Module X 1
- CAB-LAN RJ45 Ethernet Cable
- CAB-CON RJ45 RS-232C Console Cable

## Hardware Specification

### Microprocessor

- CPU High-end RISC Microprocessor

### Memory

- Flash Memory 8Mbyte
- Main Memory 64M B High-Speed SDRAM
- Boot Memory 512Kbyte Flash Memory

### CPU & Network Interface Module

- LAN0 Port One(1) 10/100Mbps Ethernet
- LAN1 Port One(1) 10/100Mbps Ethernet
- Console Port One(1) RS-232C Interface
- Indication LED 32 LED for Voice Port Status Monitoring

### Analog Voice Module

- FXS Voice Module 8-Port FXS Voice Interface(8 X RJ11)
- FXO Voice Module 8-Port FXO Voice Interface(8 X RJ11)
- FXS/FXO Voice Module 4-Port FXS/4-Port FXO Voice(8 X RJ11)
- E&M Voice Module 8-Port E&M Voice Interface(8 X RJ45)

### Digital Voice Module

- T1 Voice Module 1, 2-Port Digital T1 Module
- E1 Voice Module 1, 2-Port Digital E1 Module

### Power & Operation Environments

- Power Requirement VAC 110~220V, 50/60Hz, 100Watt
- Operating Temperature 0°C to + 50°C (32° to 112°F)
- Storage Temperature -40°C to + 85°C (-40° to 176°F)
- Relative Humidity 5% to 95% (Non-condensing)
- Power Redundancy Dual AC Power Units

### Dimensions

- H X W X D (mm) 77 X 440 X 450
- Weight(Kg) 5.1Kg

## Support Protocols & Services

### IP Routing Protocols

- Static and IEEE 802.1Q VLAN Routing
- RIP v1/v2, OSPF v2

### WAN Protocols

- Point-to-Point over Ethernet Protocol (PPPoE) for ADSL
- Dynamic Host Configuration Protocol Networking (DHCP)

### Voice over IP Services

- ITU-T H.323 v2 VoIP Protocol with ITU-T H.235 Security Feature
- G.723.1, G.726, G.729.A, G.711, etc. Voice Compressions
- VAD, DTMF, CNG, G.168 and T.38 G3 FAX Relay
- Signaling Protocol: SIP, H.323, and MGCP
- Enhanced QoS Management Features for Voice Traffics

## Contact Information

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