



## AP2620IVR VoIP Gateway

**VoiceFinder** AP2620IVR is an enterprise Broadband convergence Network (BcN) VoIP gateway that supports advanced IVR features. Since digital E1/T1 modules as well as analog voice modules can be mounted on the two voice slots, this product ensures better scalability and adaptation to an environment. AP2620IVR VoIP Gateway provides pre-paid/post-paid services by default, and could support any IVR features you want if you use IVR Scenario Editor that operates on Microsoft Windows.

The analog voice interfaces of AP2620IVR VoIP Gateway are two 4-port modules; accordingly, this product ensures better scalability and compatibility. AP2620IVR reliably functions as a media gateway for IP-PBX and as one that enables IP-PBX to inter-work with an analog PBX by accommodating digital modules as well as several analog interfaces. The front panel of AP2620IVR has LEDs that display the status of the two LAN ports, and its rear panel has two module slots, two fixed 10/100 Mbps Fast Ethernet ports, and the RS232C console interface. Based on the two LAN ports, AP2620IVR can provide a variety of network services such as LAN-to-LAN routing, bridging, and NAT/PAT. The RS-232C console port allows the device manager to perform complicated setup through Command Line Interface (CLI).

The performance and reliability of AddPac VoiceFinder VoIP gateway series have been recognized in global markets as well as the Korean market. This product concurrently supports H323, SIP, and MGCP, which are VoIP call control protocols, ensures advanced QoS for better calling quality, and provides various routing and network services in order to present a sure solution to customers who prepare for an BcN environment.

## APOS Internetworking Software

AddPac VoiceFinder Operating System (APOS™) is software that supports data, voice, video, and security. This internetworking software ensures scalability, authenticity, reliability, QoS, and better performance, and supports industry-standard network protocols and various features.

## Overview and Features

- Powerful RISC microprocessor
- Reliable IVR Features:
  - IVR Scenario Editor
  - Pre-Paid/Post-Paid Services
  - Radius
  - Cascade/Stacking
  - Multiple Scenarios
- Two slots for analog and digital VoIP modules
- Two 10/100 Mbps Fast Ethernet interfaces
- RS-232C console port for CLI interfaces (RJ45)
- 4-port FXS, FXO, E&M, digital E1/T1 VoIP modules and various broadcasting modules
- Triple VoIP stack supporting SIP, H.323, and MGCP concurrently
- Multi-protocol routing for LAN and WAN access
- Voice Processing:
  - VAD, DTMF, CNG, G.168, T.38 G3 Fax Relay
  - Voice codecs: G.723, 729A, G.726, and 711
- SNMP MIB V2 for network administration
- Standard & extended access list for security
- Essential scalability features such as DHCP server & relay, NAT/PAT, IEEE transparent bridging, and debugging/ diagnostics, etc.
- Remote firmware upgrade using FTP & TFTP
- CISCO-style Command Line Interface (CLI)
- Scalability, authenticity, and reliability ensured due to the installed APOS internetworking software

## AP2620IVR Applications

- VoIP phone system among the headquarters and branches
- IP voice/video broadcasting system
- VoIP gateways for enterprises
- VoIP phones and IP broadcasting system
- Pre-paid/post-paid VoIP services

## Hardware Specification

- Microprocessor (CPU)
  - RISC microprocessor
- Memory
  - Boot Memory: 512 Kbyte Flash Memory
  - System Memory: 8 Mbyte Flash Memory
  - Main Memory: 64 Mbyte High-Speed SDRAM
- VoIP Interface Module
  - FXS Voice Module: 4-port FXS interface (4 x RJ11)
  - FXO Voice Module: 4-port FXO interface (4 x RJ11)
  - FXS/FXO Voice Module: 2-port FXS/2-port FXO interface (4 x RJ11)
  - E&M Voice Module: 4-port E&M interface (4 x RJ45)
  - Digital E1/T1 Voice Module: 1-port interface (1x RJ45)
- Ethernet Interface
  - 10/100 Mbps 2-port Ethernet (RJ-45)
- Console Port
  - RS-232C 1-port console (RJ-45)

## Power and Operation Environment

- Power: VAC 110~220V, 50/60Hz
- Power Consumption: 5V, 5 amperes, 25 watts
- Operation Temperature: 0°C~+45°C
- Storage Temperature: -40°C~+85°C

## Dimensions and Weight

- Dimensions (Width X Height X Depth): 444x220x44mm
- Weight: 2.7 Kg

## IP Routing Protocol

- Static and IEEE802.1Q VLAN Routing

## WAN Protocol

- Broadband IP network environment
- PPPoE
- Industry-standard WAN protocol

## Voice over IP Service

- Supports H.323, SIP, MGCP VoIP signaling protocols concurrently.
- VAD, DTMF, CNG, G.168, T.38 FAX relay
- Supports the H.323 gateway and gatekeeper features.
- Voice Codecs: G.723, G.729, G.726, and G.711
- Various supplementary VoIP features
- Compatibility with commercial VoIP gateways
- Compatibility with commercial VoIP gatekeepers, SIP proxy servers, and MGC

## IVR

- IVR Scenario Editor
- Pre-Paid/Post-Paid Service
- Radius Interface
- Cascade/Stacking (Single IP Address)
- Multiple IVR Scenario

## Operation and Management

- Analyzes the performance of processes, CPU, and interfaces.
- Backs up or recovers configuration for APOS management.
- Supports debugging and diagnostics.
- Boots or reboots the system using WatchDog.
- Administers the system by enabling data logging.
- Creates a statistic of IP traffic by enabling the accounting feature.

## Network Administration and Operation

- Supports the standard SNMP agent (MIB v2).
- Supports management based on consoles, Telnet, and Web.
- Downloads configuration remotely using FTP/TFTP.
- Upgrades firmware remotely using FTP/TFTP.

## Traffic QoS Control

- Controls traffic QoS for each service.
- Controls priority setting (voice and data).
- Supports various QoS algorithms.

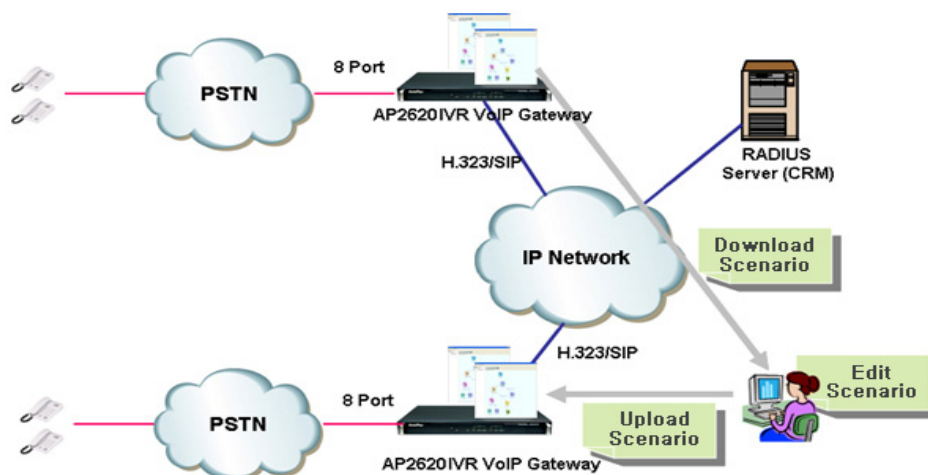
## Information Protection

- IP Packet Filtering and Access List
- Access Control and Data Protection
- Enabling/Disabling Specific Protocols
- Multi-Level User Account Management
- Auto-Disconnecting Telnet/Console Sessions
- PPP User Authentication Support
  - Password Authentication Protocol (PAP)
  - Challenge Handshake Authentication Protocol (CHAP)

## Supplementary Features

- Supports DHCP servers and relay.
- Supports Network Address Translation (NAT).
- Supports Port Address Translation (PAT).
- Transparent Bridging (IEEE Standard)
  - Spanning Tree Bridging Protocol
  - Concurrent Routing and Bridging
- Supports Network Time Protocol (NTP).
- Supports Cisco-style Command Line Interface (CLI).
- Supports load balancing.
- Supports industry-standard network protocols.

## Network Configuration



## Ordering Information

AP2620IVR-01: AP2620IVR Standard Configuration

- Two (2) Fast Ethernet Port
- One (1) Console Port
- RISC CPU
- 8 MB Flash, 64 MB SDRAM
- APOS v8.xx Manual

- CAB-LAN : Ethernet cable
- CAB-CON: RS-232C console cable
- AP-FXS4: 4-Port FXS Module
- AP-FXO4: 4-Port FXO Module
- AP-FXS2O2: 2-Port FXS,FXO Module
- AP-E&M4: 4-Port E&M Module
- AP-E1: 1-Port Digital E1 Module
- AP-T1: 1-Port Digital T1 Module