

AP-MG3000 Media Gateway High-performance & Compact Design



VoiceFinder AP-MG3000 is a high performance Media Gateway providing high scalability, cost-effective service in a small footprint. AP-MG3000 offers 120 channels of unprecedented quality of digital VoIP communication with the density requirement. Not only general QoS algorithm, AP-MG3000 supports the advanced QoS algorithms to maintain state-of-art voice quality on any types of conventional IP networks. Also, the front panel of AP-MG3000 incorporates 120 LEDs clearly indicating operational status of VoIP channels such as channel occupation status, security enable/disable status.

AddPac VoiceFinder VoIP gateways have been recognized with their unmatched level of performance and reliability in the IP telephony market. With the years of experience and the know-how at the enterprise and carrier-class markets, AP-MG3000 Media Gateway delivers true voice over IP service to businesses worldwide. Moreover, AP-MG3000 supports multi-stack operation of H.323, SIP and MGCP control protocols which well suitable for any commercial VoIP deployment.

In Internet environment, security is the issue that needs to be confronted. AP-MG3000 takes upon this complicated task with its built-in security processor, the first-of-its-kind in commercial Media Gateway market. Especially, choosing AP-MG3000 enables service providers to rapidly deploy future secured service. Including AP-MG3000, AddPac Technology carries SRTP protocol based secure VoIP Gateways such as VoiceFinder AP500S, AP2520S. AP-MG3000 is the right choice for secured, next generation communication.

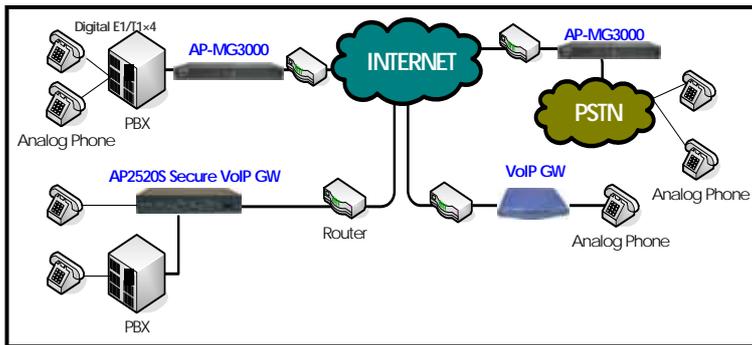
APOS Internetworking SW for AddPac Media Gateway

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

Product Highlights

- Powerful 64bit RISC CPU Architectures
- Two(2) 10/100Mbps Fast Ethernet Interface
- Two(2) Slots for Digital E1/T1 Voice Module
- Highly Integrated System Supporting 120 Channels of VoIP Calls
- New Digital E1/T1 Interface Module : 1-T1, 2-T1, 4-T1, 1-E1, 2-E1, and 4-E1
- ISDN-PRI, R2, SS7* Signaling Protocol
- 120 LEDs Incorporated on the Front Panel Indicating Operational Status
- H/W based Security Processor (Optional)
- Standard SRTP for Secure VoIP App.
- Multi-protocol Routing Solutions between WAN and LAN Access with H.323 based VoIP Protocol
- ITU-T H.323 v3 VoIP Protocol with ITU-T H.235 Security Feature
- SIP protocol support compliant with IETF RFC3261 (or RFC2543)
- SIP, H.323, MGCP Concurrent Triple Stack
- Support Voice Processing Features
 - VAD, DTMF, CNG, G.168, and T.38 G3 Fax Relay
 - G.723.1, 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 and IEEE 802.1Q VLAN Routing Protocols
- 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 Software Upgrade using FTP & TFTP
- Cisco Style Command Line Interface (CLI)
- Standard 1Ux19" Rack Mountable Chassis

AP-MG3000 Media Gateway Network Diagram



Hardware Specification

Microprocessor

- CPU 64bit RISC Microprocessor

Memory

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

Network Interface

- LAN0 Port One(1) 10/100Mbps Ethernet
- LAN1 Port One(1) 10/100Mbps Ethernet
- Voice Interface Slot Two(2) Digital E1/T1 Interface Slots
- Console Port One(1) RS-232C Interface

Trunk Interface Modules

- 1-E1/T1 Module 1-Port Digital E1/T1 Interface(1xRJ45)
- 2-E1/T1 Module 2-Port Digital E1/T1 Interface (2xRJ45)
- 4-E1/T1 Module 4-Port Digital E1/T1 Interface (2xRJ45)

H/W Security Processor (Optional)

- DES and 3DES for Data Encryption, ECB, CBC Mode
- RSA and Diffie-Hellman for public key.
- SHA-1 and MD5, HMAC for authentication

Power & Operation Environments

- Power Requirement VAC 110~220V, 50/60Hz, 25Watt
- Operating Temperature 0°C to + 45°C (32° to 112°F)
- Storage Temperature -40°C to + 85°C (-40° to 176°F)
- Relative Humidity 5% to 95% (Non-condensing)

Dimensions

- H X W X D (mm) 43 X 444 X 205mm
(19" Rack Mountable Chassis)
- Weight(Kg) 4.8Kg

Support Protocols & Services

IP Routing Protocols

- Static and IEEE 802.1Q VLAN Routing, RIP v1/v2, OSPF v2, BGP v4

WAN Protocols

- Point-to-Point over Ethernet Protocol (PPPoE) for ADSL

Voice over IP Service

- ITU-T H.323 v2 VoIP Protocol with ITU-T H.235 Security Feature
- G.723.1, G.729-A, G.711, etc. Voice Compressions
- Voice Processing Features Supports
 - VAD, DTMF, CNG, G.168 and T.38 G3 FAX Relay
- ITU-T H.323 Gateway, Gatekeeper Support
- Enhanced QoS Management Features for Voice Traffics
- ISDN PRI, R2, SS7* Signaling Protocol

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 SRTP for Secure VoIP telephony system (Optional)
- Standard 3DES for Voice Packet Enc./Dec. (Optional)
- Standard & Extended IP 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 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
 - Remote Bridging 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

- AP-MG3000-01 : AP-MG3000 Standard Configuration
 - Two(2) Fast Ethernet, One(1) Console, 64bit RISC CPU, 8MB Flash, 64MB SDRAM
 - APOS v5.xx with Operation Manual
 - Including CAB-LAN, CAB-CON
- MG3000-1E1 : 1-Port Digital E1 Interface Module
- MG3000-1T1 : 1-Port Digital T1 Interface Module
- MG3000-2E1 : 2-Port Digital E1 Interface Module
- MG3000-2T1 : 2-Port Digital T1 Interface Module
- MG3000-4E1 : 4-Port Digital E1 Interface Module
- MG3000-4T1 : 4-Port Digital T1 Interface Module
- MG3000-S1 :Added Security Processor on AP-MG3000 (at Production)
- CAB-LAN : RJ45 Ethernet Cable
- CAB-CON : RJ45 RS-232C Console Cable

Contact Information

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