FIBERME Analog FXO Gateway

FAG4104　|　FAG4108

Voice over Internet Protocol: Supports SIP per RFC 3261. Uses Real-time Transport Protocol/Real-Time Control Protocol (RTP/RTCP) for delivery of voice over the LAN

IP security: Supports HTTPS for web interface

Enhanced voice processing: Supports a variety of compression algorithms, including G.711 A-law and µ-law, G.729AB

T.38 Fax over Internet Protocol (FoIP): Transcode fax from T.30 fax protocol(supporting V.17) to T.38 for transmission over a packet network

Hot swap: Allows gateway units to be added or removed without affecting other gateway units

Web server interface: Each gateway unit is delivered with a web server interface, allowing configuration and software upgrades via a web browser

Functional Description

Designed for voicemail and unified messaging applications, FAG analog Gateways have a 10/100 Base-T Ethernet connection for connecting legacy PBX to a LAN. The analog loop start functionality supports integration via in-band signaling (DTMF or FSK) or serial protocols. The FAG Gateways provide a simple, cost-effective transition to voice and data convergence for enterprises with PBXs. Connected externally, they offer an IP solution that works with current legacy equipment. They support SIP-based applications as well as T.38 for fax transmissions over IP (FoIP).

Configurations

The FAG Gateways can be used to connect IP telephones to a legacy PBX, integrate network-hosted applications with the PBX, extend the PBX to branch offices, and integrate various voice and call processing capabilities in an enterprise LAN or WAN environment. Using exclusive PBX network interfaces, the FAG Gateway appliances provide exceptional IP to PBX integration capabilities to protect an investment in legacy telecom equipment.

Call Routing

The SMG1000 Gateways route calls from the switched network to a VoIP destination on the IP network. conversely, it routes calls from the IP network through a switch port to a destination telephone number on the switched network. The SMG1000 Gateways support the following call routing options:

- Compatible with general FXO/FXS lines, and a variety of popular PBX manufacturers(Digital PSTN lines compliance would be available)
- Protects investment in legacy telecommunications equipment and allows a controlled migration to IP technology.
- Developed and tested in FIBERME lab and optimized for use in an Enterprise environment Ideally suited for Enterprise Unified Messaging applications.
- Support for IP load balancing and IP fault tolerance Allows the ability for inbound (TDM-to-IP) calls to round-robin between available media servers
- Supports configuration via serial, telnet, and a web browser including context-sensitive help Easy to install, configure, debug, and maintain

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Analog Ports	4 FXO	8 FXO
Network Ports	2* 10/100 Base-T Ethernet LAN port	
Voice Protocols	TLS/SRTP, SIP V2.0 (RFC 3261,3262,3264), ARP/RARP (RFC 826/903), SNTP (RFC 2030) DHCP/PPPoE, RTP/RTCP for delivery of voice	
FoIP Protocols	T.38 FoIP : transcode fax from T.30, fax protocol(supporting, V.17)modulation, schemes, to T.38 for transmission over a packet network	
Voice Support	G.711 μ-Law and A-Law, G.723.1, G.729AB, Silence suppression with comfort noise, G.168 automatic echo cancellation, Call Progress Analysis (CPA), including Positive Voice Detection, Positive, Answering Machine Detection (PAMD), DTMF detection, and fax tone, detection, Comfort Noise Generation(CNG), DTMF mode: Signal/RFC2833/INBAND	
Quality of Service	Type of Service (ToS), IP precedence	
Configuration and Management	Web UI for instant management and status monitoring	
Environment	Operating temperature range : 0°C to +45°C,8-90% relative humidity non-condensing Storage temperature range : -20°C to +85°C,8-90% relative humidity non-condensing	
Compliance	FCC: Part 15 Class B; CE: EN 55032; EN 55035; EN 61000-3-2; EN 61000-3-3; EN 62368-1; RCM: AS/NZS CISPR32; AS/NZS 62368.1; AS/CA S004; IC: ICES-003; CS-03;	

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