

SMG 1000 FXO/FXS VoIP Gateway

With a simple and economical way to helps legacy telephone, fax machine and PBXs interconnect with IP network, Synway SMG1000 analog media gateway enables call center and multibranch enterprises to process powerful, versatile and efficient VoIP solutions for unparalleled cost advantage.

SMG1000 Analog Gateways allows for a well-planned, phased migration to an IP network, making the gateways an easy solution for enterprises looking to enhance their legacy PBX equipment with new VoIP access and applications. Connected between a PBX or an Analog and a LAN, the SMG1000 Gateways convert analog PSTN messages into a format suitable for transmission over standard IP networks.



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



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- Compact 1U 8/16/24/32 Ports (SIP)
- FXS/FXO Configurable
- FoIP Supported(T.30 to T.38)

Functional Description

Designed for voicemail and unified messaging applications,SMG analog Gateways have a 10/100 Base-T Ethernet connection for connecting legacy PBX to a WAN/LAN. The analog loop start functionality supports integration via in-band signaling (DTMF or FSK) or serial protocols. The SMG1000 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 SMG1000 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 SMG1000 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:

- TDM to IP or IP to TDM
- IP load balancing
- IP fault tolerance
- 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 Synway PBX 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.

Technical Specifications:

PBX Interface

Number of ports: 2-32 FXO/FXS configurable Connectors: 2-32 shielded female RJ-11 jacks *Use multiple gateway units for higher port counts

Network Features

Network interface: 10/100 Base-T Ethernet LAN port connector: 2 shielded female RJ-45 Jack for LAN Static IP, PPPoE, DHCP Client IPv4, IPv6 Static/dynamic ARP Traffic Shaping DIFFServ, ToS • VoIP Protocols TLS/SRTP OpenVpp

OpenVpn SIP V2.0 (RFC 3261,3262,3264) ARP/RARP (RFC 826/903) SNTP (RFC 2030) DHCP/PPPoE RTP/RTCP for delivery of voice



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FolP Protocol

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 Telnet

Call Routing

From IP to PSTN or from PSTN to IP

User configuration list of VoIP endpoints

IP load balancing

IP fault tolerance

IP Security

HTTPS for web interface

Power Requirements

Line voltage 100 VAC to 240 VAC

Frequency 47 Hz to 63 Hz

Physical Dimensions

High 1.72in(44mm)

Wide 17.32in(440mm)

Deep 10.51in(267mm)

Weight Approximately 8.8ibs(about 4kg)

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

Approvals and Compliance

For information about RoHS compliance and other approvals, please contact Synway directly.

EMC/EMI

Compliant with most international standards. For compliance documents, please contact Synway's sales representatives.

Safety

Compliant with most international standards, please ask Synway or its sales representatives worldwide. Synway would comply all new safety standard to for different regions around the world while needed.

Telecom Approvals

(Partially approved)Compliant with most international standards, please ask Synway or its sales representatives worldwide.

About Synway

As a major manufacturer and supplier of communication products and solutions, Synway specializes in providing superior Multimedia Gateway, Integrated Multimedia Switch, Telephony Hardware in use for Telecom communications. www.synway.net

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