



# ***SMG Integrated Media Gateway***

*Remove Unclearness, Disconnection and Complexity*



# SMG 1000

- Compact 1U 32 ports (SIP)
- FXS/FXO Configurable
- FoIP Supported (T.30 to T.38)

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

SMG1000 Analog Gateways allow 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



## ● 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 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).

Key Features	Voice over Internet Protocol (VoIP)	Values	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 $\mu$ -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

## ● 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



#### Telecom-grade Cooling System

Adopt two built-in ultra-silent fans coupled with minimum windage design



#### Modular Structure

In-house modular FXO/FXS interface for any configuration



#### Multiple Interface

Interconnect to various network interfaces (RJ11/RJ21/RJ45)



#### EMC Design

Minimize heating and EMC via regular hexagon cooling hole

#### 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 Interface

Network Interface	10/100 Base-T Ethernet LAN port
Connector	2 shielded female RJ-45 jack for LAN

#### VoIP Protocols

SIP per RFC 3261  
RTP/RTCP for delivery of voice

#### FoIP 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
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#### Voice Support

G.711  $\mu$ -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

#### 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	Wide	Deep
1.72 in (44 mm)	17.32in (440 mm)	10.51in (267 mm)
Weight Approximately 8.8 lbs. (about 4kg)		

#### Environment

Operating temperature range  
0 to +55 °C, 8-90% relative humidity non-condensing

#### Storage temperature range

-20 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.

#### Reliability/Warranty

Estimated MTBF Five Years

# Technical Specifications





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