SMG4000

Synway VoIP Gateway

Wireless VoIP Gateway (1 Port)

Brief Introduction:

Built on decades of IP, multimedia processing and wireless technologies, Synway's 2G/3G/4G/Wi-Fi wireless gateway, as a part of the Synway gateway family, is used for reliably bridging mobile network with the VoIP network. With push-pull SIM card sockets for easily installing the SIM cards, it adopts advanced built-in VoIP processors and GSM/CDMA/VoLTE modules, and enables ISPs and VoIP solution providers to deliver highly available and versatile wireless- to-IP systems, effortlessly and cost-efficiently.



Key Features and Benefits:

• Complete Protocols Range

Support standard Sip protocols, and could be used worldwide; Support both 2G/3G/4G wireless network, including both GSM/CDMA/LTE and More

High Voice Optimization Capability

Adopt Synway's homegrown voice optimization technologies to ensure crystal clear communication, including DSP-based 128mc echo cancellation

High Flexibility and Scalability

A single port of Wireless-to- IP transmission, and support a diversity of wireless networks in a single system

User-friendly GUI

Easy-to-use service Web based UI configuration and management tools could help accelerate service deployment and simplify platform management

High Interoperability with Terminals

Compliant with all brands of terminal mobile devices and a complete range of SIP trunking worldwide, support auto-provision in complex network environment

Telco-Grade Reliability

Adopts telco-grade standards and components to design and manufacture, and certified and approved by most telecom operators worldwide



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Functional Description

Basic Features:

GSM: 850/900/1800/1900MHz

CDMA: 800MHz

UMTS: 850/900/1900/2100MHz

VoLTE 4G: customizable Support Wi-Fi: standard SMS CODEC: ASCII/UCS2 Open and programmable API

PIN management

Call time restriction: SIM Card/Single Call

Operator locking BCCH management

Call hold
Call transfer
SMPP

Voice

Silence suppression and detection CNG (Comfort Noise Generator) support VAD (Voice Activity Detection) support Echo cancellation (G.168), up to 128ms Self-adaptive dynamic buffering Call progress tone generation AGC (Automatic Gain Control) support

Protocol

SIP V2.0 RFC3261

SDP RFC2327

Session Timer RFC4028

RTP/RTCP RFC3551

SIP registration

SIP trunk (Point-to-Point)

SIP trunk group

Ringback (Immediate/normal)

SIP/GSM release cause configurable

DNS SRV/A query

Out-of-stack agent

DTMF mode: Signal/RFC2833

NAT traversal

Dynamic NAT, Static NAT, STUN

Physical Interface

SIM Card Socket: 1 Port with 4 sockets

Ethernet interface: RJ45, 2 ETH, 10/100M Base

CONSOLE: RJ45, RS232, 115200bps

Antenna interface: SMA

Status indicator: PWR, RUN, ALM, Channel state,

Signal strength, ACT per network, LINK status.

Reset button

Network Protocol

IP v4, UDP/TCP, PPPoE, DHCP FTP/TFTP ARP, RARP, NTP HTTP, Telnet

Management

Configuration management based on WEB

Configuration backup/restore

Interface in Chinese/English Firmware upgrade via HTTP/TFTP Password

modification for WEB sign-in Factory

settings restore

CDR and tracking information output

Syslog

Ping and Tracet tests based on WEB

Transport Protocol Count: TCP, UDP, RTP

VoIP Call Count

PSTN Count: ASR, ACD, PDD

Voice loopback test

IVR Customizable

System Log

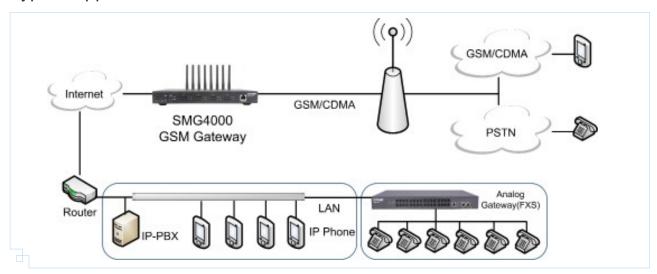
Centralized cloud-platform integrated management





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Typical Application:



Technical Specification

Dimensions

107×30×105mm

Weight

Net: 0.3kg Gross: 0.5kg

Environment

Operating temperature: 0° C —55 $^{\circ}$ C Storage temperature: -20° C —85 $^{\circ}$ C Humidity: 8%— 90% non-condensing Storage humidity: 8%— 90% non-condensing

LAN

Amount: 2 (10/100 BASE-TX (RJ-45)) Self-adaptive bandwidth supported Auto MDI/MDIX supported

Console Port

Amount: 1 RJ-45 (RS-232) Baud rate: 115200bps Data bits: 8 bits Stop bit: 1 bit Parity unsupported Flow control unsupported

Power Requirements

Input voltage: DC 12V ± 10%

Input current: ≥3A

Signaling Protocol:

SIP V2.0 RFC3261

Network Protocol

IP v4, UDP/TCP, PPPoE, DHCP FTP/TFTP ARP, RARP, NTP HTTP, Telnet

Audio Encoding & Decoding

G.711A 64 kbps G.711U 64 kbps G.729 A/B 8 kbps G.723 5.3/6.3 kbps G.722 64 kbps AMR 4.75 kpbs iLBC 13.3/15.2 kbps

Sampling Rate

8kHz

Wireless Feature

Frequency band:

GSM: 850/900/1800/1900MHz

CDMA: 800Mhz

UMTS: 850/900/1900/2100Mhz SMS CODEC: ASCII/UCS2 Support Wi-Fi(With signal antenna) Support 2G/3G/4G(With signal antenna)





Connect Synway







www.synway.net

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. Since 1995, over 3,000 service providers, software developers and system integrators have deployed Synway's offerings to deliver a broad range of TDM and VoIP-based applications worldwide, including Unified Communications, SIP Trunking, Call Center, Mobile VAS, Faxing, Conferencing, Call Recording as well as Asterisk-based Open Source Applications. With dedicated teammates and well-known premium services. Synway makes consistent efforts to deliver partners with a variety of customizable, highperformance and cost effective voice communications products.

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