

Get Connected with



Synway E1/T1 VoIP Media Gateway

Safe Bridge Between IP & TDM & Mobile Networks



Synway Information Engineering Co., Ltd.

SMG3008/3016/3064

Hi-Availability E1/T1 PRI/SS7/SIGTRAN VoIP Gateway

- Support 8/16/63 E1(T1 Optional)in 1U Space
- Support SIP and SS7/ISDN/R2 and More
- Telco-grade Redundancy & Dual Power Supply

With a more efficient manner to interconnect and deliver large-scalability services, The Synway SMG3000 enables service providers and carriers to maximize value of their networks and services. The SMG3000 converts digital PSTN message into IP formats and connects and secures sessions across IP and mixed network boundaries to support the seamless delivery of services.

The SMG3000 connects IP and hybrid networks via telephony and E1(T1 or STM-1)/Ethernet links in a compact 1U form factor appliance. It also transforms media and signaling to support efficient and reliable voice, fax and multimedia sessions for mobile, fixed and cloud-based applications. The convergence of IP multimedia and TDM gateway functionality in a single chassis in the SMG offers significant reductions in investment and operational cost when compared to less integrated alternatives.

SMG3000R inbuilt call classification/analytics is vital for hi-density OBD applications, including predictive dialing, dialer, telemarketing and more. It helps minimize dialing cost and maximize value of dialing (human and network) resources. With call classification, OBD applications could improve dialing efficiency by up to 60% and deliver high satisfaction for both agents and subscribers.



Key Features and Benefits

- Build-in SS7, SIGTRAN, SIP, R2 & More Protocols

Complimentary standardized SS7 Packets(Up to 64 SS7 links, ISUP, MTP1~3, TCAP), SIGTRAN and SIP for any carrier networks worldwide; Field-proven by over 50 largest operators from European, China, USA, India, Brazil, South America.

- Dedicated DSP-Empowered Capability

Telecom-style DSP algorithm has been optimized for over decades, assuring seamless compliance with any network environment. Plentiful DSP resources are allocated for signaling, media processing, bandwidth optimization, Telco redundancy.

- Robust Telco-Grade Architecture

Dual power supply, 1U compact structure, industrial heating sink system, dual 1,000M Ethernet interfaces, and Telco' grade hardware architecture ensures 200,000Hr MTBF and 0-defective rate in long lifecycle.

- Highly Adjustable For Diverse SoftSwitch

Homegrown core technologies to assure seamless compliance with diverse softswitch platform, including Mitel, Avaya, Broadsoft, Yate, OpenSIP, Asterisk, VECTRA, VSC, SIPPUULSE, Tropic, FreeSwitch and more other softswitch;

- 99.9999% Availability in Full Load

Support 8~64E1 (240~1,920Chs) per unit, with higher system responsiveness capability in extreme network for better operational results; High performance and stability in cases of unstable (low) bandwidth and high capacity.

- User-friendly WEB Management

With complete understanding about SPs and operator's headaches, SMG3000 adopts the simplest and straightforward configuration to achieve SPs and Operators' most sophisticated objectives. Over 10000 units of SMG3000 can run together.

Key Features and Benefits

● Improve Dialing Efficiency

In general database of OBD systems, unused numbers accounts for 10~ 30%, suspended numbers for 5~ 20%, shutdown number for 5~10%. It means around 20~ 60% dialing numbers are invalid. With call classification function, dialing systems (predictive dialer) could filter out all invalid numbers for best dialing results.

● Reduce Operational Expenditure (OPEX) by 20%

Unsuccessful dialing incurs higher operational costs while labor cost for telemarketing is specifically considered. According to analytical statistics from surveys, OPEX could be reduced by 20% or more if successful dialing ratio increases by 60%.

● Hi-Accuracy Call Classification

With call classification functionality, over 99.999 % (in some scenarios) of called number states could be accurately detected by analyzing telephone alert tones. Only in much noise conditions over the network, call classification may default.

● Minimize Your Hardware Cost

High voice quality and instant call connection, improving system efficiency and profitability; Synway SS7 VoIP Gateway could reduce hardware cost by 70%.

● High Interoperability

Advanced voice processing and SS7 signaling ability to ensure superb VoIP communications experiences. SS7 packets are customizable and compliant with diverse softswitch.

Technical Specification:			
Models Features	SMG3008	SMG3016	SMG3064 SMG3064R
Sessions	240	480	1890
Segmentation	Carrier-grade		
Telephony ports	8	16	63
Interface	RJ45	RJ45	Fiber Optical
Power Supply	Dual		
Power Requirements	AC Power Supply Range 100 – 240 VAC The power supply will operate at frequencies between 47Hz and 63Hz		
Coder support	G.711A,G.711U, G.729 A/B,G723,G722, GSM, iLBC, RFC 2833, RF 3261, SIPINFO, INBOUND		
IP protocols	TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN, etc.		
SIP Protocol	Supported SIP standards: IETF RFC 3261 (SIP: Session Initiation Protocol); IETF RFC 2327 (SDP-Session Description Protocol); IETF RFC 3550 and 3551 (RTP/RTCP); IETF RFC 2833 (DTMF)		
TDM Signaling Protocols	ISDN PRI/MF R2/SS7 ISUP/SS7 MTP1~3/SS7 SIGTRAN/SS7 TCAP		
Dimensions H*W*D(mm)	44*440*267		44*440*690
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		
Routing	Call Routing and translation (PCM↔IP)		
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.		
EMC/EMI	Compliant with most international standards. For compliance documents, please contact Synway's sales representatives.		
OAM&P	Network Time Protocol(NTP) Web User interface (WebUI) supports configuration via browser SNMP MIBs		



As a leading VoIP enabling-technologies provider in China, Synway has been partnered with applications & solution providers worldwide to deliver turkey solutions for enterprises and telecom carriers. Based on long-standing business network, Synway's appliances and equipments, with third-party compliant software platforms from mainstream application providers, have served 5,000 plus customers, including contact centers, financial institutes, public security, government agencies, service providers, hospitality and operators.

In ever-changeable environments, Synway's long-term goal would be of partnership with vendors of cloud-based unified communications, providing enterprises and SPs with a complete range of cloud-based applications, including Video and Audio Conferencing, Contact Center, IP-PBX, Unified Messaging, Social Media Services and more. For in-house IPR and better customer value, Synway provides strategic partners with customized OEM or ODM services to localize more efficiently. To achieve 0-defective rate, Synway has adopted ISO9001, CE, FCC, RoHS, 3C and more since 2001.

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