SMG3000-B4

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

- Support 4 E1(T1 Optional)in 1U Space
- Telco-grade Redundancy & Dual Power Supply
- Support SIP and SS7/ISDN/R2 and More

With a more efficient manner to interconnect and deliver large-scalability services, The Synway SMG3000-B4 enables service providers and carriers to maximize value of their networks and services by converting digital PSTN message into IP formats and securing sessions across IP and mixed network boundaries to support the seamless delivery of services. 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.

Key Features and Benefits

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

Complimentary standardized SS7 Packets(Up to 64 SS7 links, ISUP, MTP1~3, TCAP), SIGTRAN and SIP for most 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, SIPPULSE, Tropico, FreeSwitch and more other softswitch;

● 99.9999% Availability in Full Load

Support 4E1 (120Chs) 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 straight-forward configuration to achieve SPs and Operators' most sophisticated objectives. Over 10000 units of SMG3000 can run together.

● 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.

Core Specifications

Product Model	SMG3000-B4
Sessions	120
Routing Features	Call routing and translation (from PCM to IP or reversely)
IP Interfaces	Dual redundant 2 *Gigabit Ethernet for VoIP payload and signaling
IP protocols	TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN, etc.
Coder support	G.711A,G.711U, G.729
Power Supply	Dual Internal Power
TDM Signaling Protocols	SS7, ISDN PRI/MF R2
Power Requirements	100-240V AC
Mounting	DESKTOP or Rack Mount
Compatibility	Interoperable with most IP-PBX and UC Platform, and field-proven by SMB and Carriers Worldwide
Dimensions H*W*D(mm)	44*440*227
Environment	Operating temperature range :0 to +55 °C, 80-90% relative humidity non-condensing Storage temperature range:-20to +85 °C, 80-90% relative humidity non-condensing
Routing	Call Routing and translation (PCMIP)
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
Dedicated DSP-Empowered Capability	Assuring seamless compliance with any network environment. Plentiful DSP resources are allocated for signaling, media processing, bandwidth optimization, Telco redundancy Telecom-style DSP algorithm has been optimized for over decades
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, SIPPULSE, Tropico, FreeSwitch and more other softswitch

About Synway

As a leading Security and VoIP enabling-technologies provider in China, Synway has been partnered with applications & solution providers worldwide to deliver turkey solutions for enterprises, telecom carriers, intelligence, public security, law enforcement, etc. Based on long-standing business network, Synway's products and service have served 3,000+ customers, including contact centers, financial institutes, public security, national safety agencies and more.