Synway E1/T1 VoIP Media Gateway
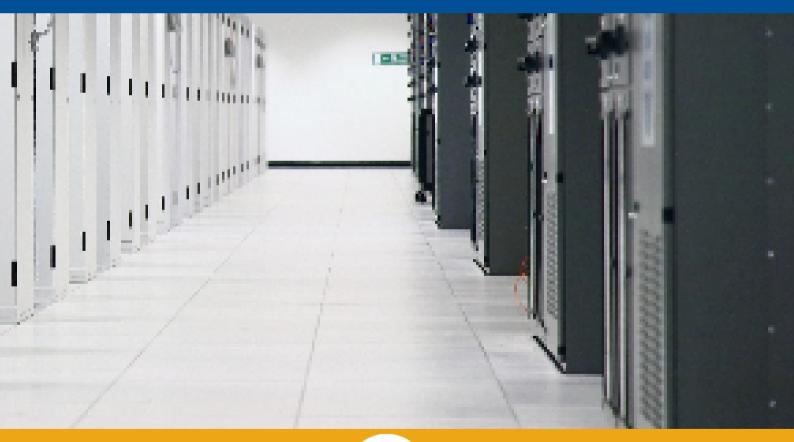
Safe Bridge Between IP & TDM & Mobile Networks

Synway®

SMG3000-B1L/B2L
Mini Size E1/T1 VoIP Gateway

- Support 1/2 E1(T1 Optional) in Mini Size
- Support SIP and SS7/ISDN/R2/CAS and More
- Superior Voice Quality and Reliability in Full Load
- Only 30mm*190mm *120mm(High*Wide*Deep)

The Synway SMG3000-B1L/B2L, with mini size for better space and shipment efficiency, are new members of Synway's VoIP gateway family that enables service providers and enterprises to maximize value of their networks and services. It converts digital E1/T1 PSTN message into IP formats and secures sessions across IP and mixed network boundaries to support the seamless delivery of services.

SMG2030L/2060L are unparalleledly cost effective and compliant with PRI ISDN, R2 and SS7 packets, and adopt the equivalent hardware architecture like Synway's Telco' grade SMG3000 series, with dedicated DSP chipsets for processing IP/TDM signaling and optimizing voice quality. Compared with rival products, SMG2000L features high reliability and unmatched cost, and delivers a perfect alternative option for enterprises, operators and system integrators.

VoIP	ISDN	IP2Tel Tel2IP Route	Redundancy	NAT
Cloud	VLAN	Live call Bargain	VPN	QoS

Key Features and Benefits

● **Flexible Scalability**
From 30 to 60 simultaneous SIP sessions with multimedia transcoding provides high performance in a small footprint to help lower ownership cost and operational cost; a broad range of gateway toolkits help gateway's maintenance and software upgrading for Web UI, gateway services and firmware.

● **Flexible and efficient Gateway Solution**
Provide a clear migration path to an all-IP network. It can scale up to 60 simultaneous IP sessions and at the same time provide media transcoding and impressive sessions per second performance; Support SS7 signaling, call routing, call automated failover from IP to TDM for outbound routing.

● **Any-to-Any Signaling and Transcoding**
Provide any-to-any network connectivity through its ability to interwork multiple protocols to deliver services. It can provide interworking between SS1, R2, ISDN, SS7, SIP formats and any-to-any media transcoding for popular voice codecs, T.38 and G.711 fax interworking, RTP, INBAND and SIPINFO.

● **User-Friendly Management & Toolkits**
The Web graphical user interface (WebUI) is a real-time web toolkits to configure and monitor and perform real-time monitoring and maintenance. Flexible SIP and Protocols configuration help to configure SIP, SIP trunking,SIP Mediation, PCM, SS7 and ISDN, Routing and more.

● **Combined All Features on A Single Platform**
Integrated multimedia gateway features facilitate TDM and IP interworking to provide service delivery flexibility and automated failover between domains.

● **Integrated Transcoding for Voice, Tone and Faxing**
Eliminates the need to add separate hardware to support transcoding requirements helping to reduce CAPEX and number of platforms deployed, and support a range of Codecs, including G.723, G.729, G.711, iLBC, SIPINFO, RFC2833, RF3261, INBOUND and more.

Technical Specification:

Features / Model	SMG3000-B1L	SMG3000-B2L
Sessions	30	60
Routing Features	Call routing and translation (from PCM to IP or reversely)	
IP Interfaces	Dual redundant 2 *100 Base-T 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 A/B,G723,G722, GSM, iLBC, RFC 2833,RF 3261,SIPINFO,INBOUND	
Power Supply	Single	
TDM Signaling Protocols	ISDN PRI/MF R2/SS7 ISUP/SS7 MTP1~3/SS7 SIGTRAN/SS7 TCAP	
Power Requirements	12V DC	
Mounting	Desktop	
Compatibility	Interoperable with most IP-PBX and UC Platform, and field-proven by SMB and Carriers Worldwide	
Dimensions H*W*D(mm)	30*190*120	
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	
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	
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	

Synway®

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.

No notice for any change in future in this catalog, For more information or latest update, please visit Synway website.