Synway® SBC & VoIP Gateway

Safe Bridge Between IP & TDM & Mobile Networks

Synway ®

VoIP Gateway
Seamless bridge between VoIP & TDM Networks

With over two decades of expertise in signaling and voice technology, Synway VoIP gateway family helps customers access to IP networks from legacy telephony applications more reliably and efficiently. Our field-proven PSTN/IP signaling technology possesses unparalleled and seamless interoperability with any complex network environments, which exponentially reduces your investments and time to markets under any uncertain situations.

Thanks to long standing IP expertise, Synway has brought out a whole new package of VoIP solutions. Our VoIP gateway, different than rivals, not only delivers its high cost advantages, but also features easy-to-use, customizability, Plug-And-Play capabilities, and world-class voice optimization technologies. It ensures seamless interoperability with any complex network environments and also makes the VoIP gateway an ideal option for system integrators, SPs and enterprises.

Key Features and Benefits

● Widest product range
Widest option for enterprises and carriers, portfolios include cost-effective and versatile FXO/FXS/GSM/WDCMA/VOLTE/E1/T1 VoIP gateway, high-performance hybrid VoIP gateway and carrier-grade SS7/SIGTRAN VoIP Gateway, as well as transcoding, call classification and SBC gateway for specific requirements.

● Flexible configuration
Compliant with diverse networks (FXO, FXS, T1, E1, J1, GSM, CDMA, 3G, VoLTE, IP): support various multimedia processing capability (conferencing, fax, compression and SuPerForm echo cancellation for voice enhancement) and an array of Protocols (SS7, SIGTRAN, ISDN PRI, CAS, R1, R2, Wireless).

● Compliance with any applications
With optional inbuilt industrial server, Synway's VoIP gateways are compliant with any IP-based applications; it also supports any category of third party software, including UC, IP-PBX, Contact Center and more. In legacy PSTN network, Synway VoIP gateway could converge applications based on legacy networks.

● Low to high scalability
Modular architecture and wide product range ensure flexibility and expandability from low density to high density. In a single chassis, 2~1,920 channels are available for diverse applications. For all product categories, a unified management software allows for easy configurations, system upgrading or general maintenance.

● Diverse media resources
Support high-capacity voice playback and Codecs, conferencing, faxing; Support T.38/T.30; optimized for IP-PBX, IVR and ACD applications, with EXT IVR server or GUI management.
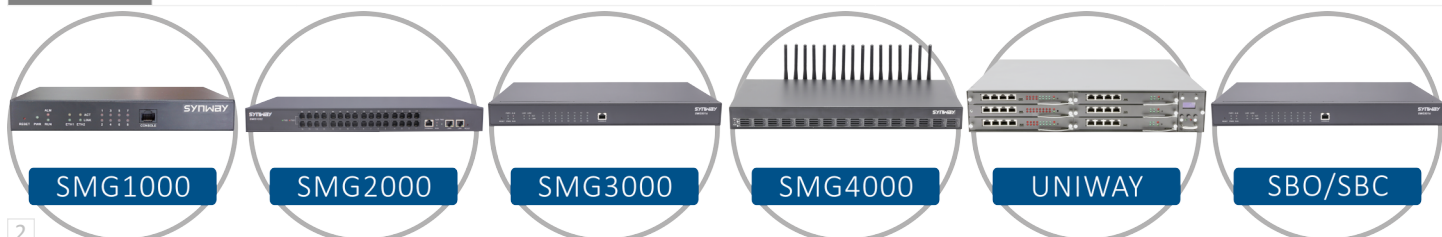
● Carrier-Grade reliability
Special power system with standby redundancy; advanced cooling system to reassure long-standing robustness ; special air cleaner to protect against dust accumulation inside chassis; RoHS compliant; Inside temperature control and alert system.

● Cloud-Based management system (DCMS)
Real-Time Monitoring of VoIP Gateway Status; Management Capability for More Than 10,000 Devices; DCMS Features Cloud-based Management Capability; Superior Network Access Traversal (NAT) Capability. For Detail, Please refer to www.synway.net.

Technical Specification:

Features \ Models	SMG1000	SMG2000L	SMG2000	SMG3000	SMG4000	UNIWAY	SBO	SBC	SIM Bank
Products models	2~32 Ports FXO/FXS	1/2 Ports E1/T1	1/2/4 Ports E1/T1	8/16/64 Ports E1/T1	4~32 Ports	8 slots for modules	500~2,000 ports	SBC	64/128 Sim Slots
Segmentation	SMB	SMB Enterprise	Enterprise Carrier	Carrier	Enterprise Carrier	Enterprise Carrier	Carrier	Enterprise Carrier	Enterprise Carrier
Sessions	4-32 Chs	30-60 Chs	30-120 Chs	240-1920 Chs	4-32 Chs	4-600 Chs	500-2000 Chs	1-500 Chs	128 Sim Slots
Network	100M Ethernet	1000M Ethernet							100M Ethernet
LAN Port	1-2	2	2	2	1-2	2	2	2	2
TDM interface	FXO/FXS	E1/T1/J1	E1/T1/J1	STM-1	GSM/CDMA/WCDMA/3G/VoLTE	Hybrid	N/A	N/A	GSM/CDMA/WCDMA/3G/VoLTE
Signaling	SIP/TDM	SIP/ ISDN R2/CAS	SIP/MGCP/SS7/SIGTRAN ISDN/R2/CAS		SIP/GSM CDMA/WCDMA	Hybrid	SIP	SIP	SIP/GSM CDMA/WCDMA
Media capability	DSP-based								
Codecs	G.711/729/723/722/iLBC/AMR								
Power Supply	Single	Single/dual		Single		Single/dual		Single	
Power Requirements	AC Power Supply Range 100 – 240 VAC The power supply will operate at frequencies between 47 Hz and 63 Hz				Input voltage: DC12V+10% Input current:≥3A	AC: 90-120V or 200~265V Power consumption: less than 350W	Input voltage:100-240V AC Maximum power consumption:≤22W		Input voltage: DC12V+10% Input current:≥3A
Media Resources	Echo Cancellation/Fax/Conferencing								
Routing	Call routing (IP ↔PSTN)	Call routing and translation(PCM↔IP)			Call routing IP↔Wireless	Call routing IP↔PSTN	N/A	N/A	Call routing IP↔Wireless
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								
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								

SMG1000 SMG2000 SMG3000 SMG4000 UNIWAY SBO/SBC

SMG1000
FXO/FXS VoIP Gateway

- Support 2~32FXS/FXO Ports, Field Approved Globally
- Superior Voice Quality by Designated DSP Chipsets
- User-Friendliness and Web-based Administration

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

SMG1000 Analog Gateway allows 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 a LAN, the SMG1000 Gateway converts analog PSTN messages into a format suitable for transmission over standard IP networks.

| VoIP | TR-069 | FAX | Hotline | NAT |
| Cloud | VLAN | Recording | VPN | QoS |

Key Features and Benefits

- **Fit to Diverse Applications**
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;

- **Flexible Call Routing**
Route calls from the switched network to a VoIP destination on the IP network or conversely, and support the following call routing options: TDM to IP or IP to TDM, with IP load balancing, IP fault tolerance;

- **Controlled Migration to IP**
Compatible with general FXO/FXS lines, and a variety of popular PBX manufacturers (Digital PSTN lines compliance would be available), and protects investment in legacy telecommunications equipment;

- **User-Friendly Management**
Supports configuration via serial, Telnet, and a web browser including context-sensitive help
Easy to install, configure, debug, and maintain;

- **Enhanced Voice/Fax Processing**
Supports a variety of compression algorithms, including G.711 A-law and μ-law, G.729A/B; Transcode fax from T.30 fax protocol (supporting V.17) to T.38 for transmission over a packet network;

- **Web Server Interface & Hot Swap**
Each gateway unit is delivered with a web server interface, allowing configuration and software upgrades via a web browser; Allows gateway units to be added or removed without affecting other gateway;

| Features Model	SMG1004	SMG1008	SMG1016	SMG1032
Technical Specification:				
Model	SMG1004-2S2O SMG1004-4S SMG1004-4O	SMG1008-4S4O SMG1008-8S SMG1008-8O	SMG1016-8S8O SMG1016-16S SMG1016-16O	SMG1032-16S16O SMG1032-32S SMG1032-32O
Sessions	4	8	16	32
Telephony ports	4	8	16	32
Interface	RJ11	RJ11	RJ11, RJ21, RJ45	RJ11, RJ21, RJ45
LAN	1*10/100Mbps		2*10/100Mbps	
Console Port	N/A		1	
Signaling	SIP/TDM			
Power Supply	Single			
Power Requirements	12V DC		AC Frequency 47 Hz to 63 Hz	
Codecs	G.711/729/723/722/iLBC/AMR			
DTMF Mode	RFC2833, SIP Info, In-band			
Fax	T.38 and Pass-through			
QoS	DiffServ, ToS, 802.1 P/Q VLAN tagging			
Network	DHCP, PPPoE, Static Route, VLAN			
Network Protocol	TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN			
Management Protocol	TR-069*			
Signaling	FXS Loop Start, FXS Kewl Start			
Caller ID	BELL202, ETSI (V23), NTT (V23-Japan), and DTMF-based CID			
FXO Connectivity	Programmable AC Impedance, Hangup Detection, Answer Detection, Caller ID Detection			
Dimensions H*W*D(mm)	220*148*40		440*267*44	
Routing	Call routing(IP ↔PSTN)			
Mounting	Desktop		Wall-mount	
Compatibility	Interoperable with most IP-PBX and UC Platform, and field-proven by SMB and Carriers Worldwide			
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			
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			

SMG2000L
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 SMG2030L/2060L, 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 |
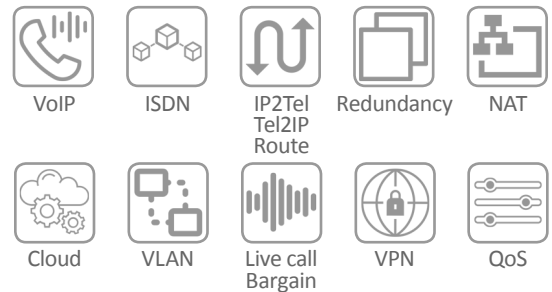
Key Features and Benefits

- 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	SMG2030L	SMG2060L
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	

SMG2000/3000

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

- Support 1/2/4/8/16/63 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 SMG2000/3000 enables service providers and carriers to maximize value of their networks and services. The SMG2000/3000 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 SMG2000/3000 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.

VoIP	SS7	IP2Tel Tel2IP Route	Redundancy	NAT

Cloud	VLAN	Radius	VPN	QoS

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, SIPPULSE, Tropico, FreeSwitch and more other softswitch;

- **99.9999% Availability in Full Load**
Support 1~64E1 (30~1,920Chs) 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, SMG2000/3000 adopts the simplest and straight-forward configuration to achieve SPs and Operators' most sophisticated objectives. Over 10000 units of SMG2000/3000 can run together.

- **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.

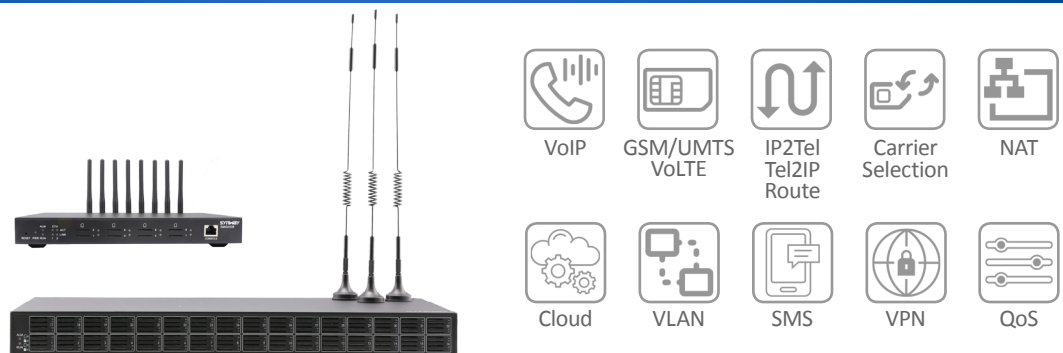| Technical Specification:						
Models / Features	SMG2030	SMG2060	SMG2120	SMG3008	SMG3016	SMG3064 SMG3064R
Sessions	30	60	120	240	480	1890
Segmentation	Enterprise			Carrier-grade		
Telephony ports	1	2	4	8	16	63
Interface	RJ45	RJ45	RJ45	RJ45	RJ45	Fiber Optical
Power Supply	Dual					
Power Requirements	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					

SMG4000
GSM/WCDMA/UMTS/VoLTE VoIP Gateway

- Support 4/8/16/32 GSM/WCDMA/CDMA/UMTS/LTE Protocols
- Superior Voice Quality by Designated DSP Chipsets
- Support SMS and A Range of Mobile Applications

Synway SMG4000 Wireless Gateway could be compliant with a variety of wireless/mobile protocols (2G/3G/4G), enabling interconnection between GSM/CDMA/WCDMA/VoLTE network and VoIP network smoothly and safely. It is able to bridge wireless network with IP networks efficiently, regarding to the high-demanding user requirements.

GSM4000 adapts self-propelled SIM card slots, advanced built-in VoIP processors and wireless modules, and helps enterprises and SPs launch diverse cost-efficient and flexible Wireless-to-IP communication systems. SMG4000 could also be applied into a range of systems, including remote billing and charge, Mobility PBX, PSTN backup lines, VoIP localization, SMS platform and more.

| VoIP | GSM/UMTS VoLTE | IP2Tel Tel2IP Route | Carrier Selection | NAT |
| Cloud | VLAN | SMS | VPN | QoS |

Key Features and Benefits

- **DSP-based Algorithm**

DSP-enabled voice optimization to assure crystal voice quality and maximize bandwidth efficiency; High-speed response and connectivity in the extreme network environments, with better run efficiency;

- **High security**

Support a range of SIM Block manners. In specific environments, SMG4016/SMG4032 (16/32 Ports) could use and activate multiple SIM cards circularly, improve system security, make full use of bandwidth, and increase ROI.

- **Complete Protocols Range**

Support standard SIP protocols, and could be used worldwide; Support both 2G/3G/4G wireless network (in different versions), including both GSM/WCDMA/VoLTE and More;

- **High Voice Optimization Capability**

Adopt Synway's homegrown voice optimization technologies to ensure crystal clear communication, including DSP-based 128mc echo cancellation; Telco-grade reliability and continuous high performance in fully loaded capacity and in the long run;

- **High Flexibility and Scalability**

Could be configured from 4/8/16/32 Ports 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

Features \ Model	SMG4004	SMG4008	SMG4016	SMG4032
Models	SMG4004GSM/CDMA/ WCDMA/3G/VoLTE	SMG4008GSM/CDMA/ WCDMA/3G/VoLTE	SMG4016GSM/CDMA/ WCDMA/3G/VoLTE	SMG4032GSM/CDMA/ WCDMA/3G/VoLTE
Sessions	4	8	16	32
Telephony ports	1	2	4	8
TDM Interface	GSM/CDMA/WCDMA/3G/VoLTE			
Interface	RJ45	RJ45	RJ45	RJ45
SIM card slots	4	8	64	128
Power Supply	Single/dual			
Power Requirements	12V DC			
Protocol	SIP, IAX2			
Transport Protocol	UDP, TCP, TLS, SRTP			
Codecs	G.711 (alaw/ulaw), G.722, G.726, G.729A, GSM, ADPCM, Speex			
Voice Capability	ITU-T G.168 LEC			
DTMF Mode	RFC2833, SIP Info, In-band			
Calling Type	Termination (VoIP to GSM/WCDMA), Origination (GSM/WCDMA to VoIP)			
Fax	T.38 and Pass-through			
QoS	DiffServ, ToS, 802.1 P/Q VLAN tagging			
Network	DHCP, DDNS, Firewall, OpenVPN, Static IP, QoS, Static Route, VLAN			
Network Protocol	FTP, TFTP, HTTP, SSH			
NAT Traversal	Static NAT, STUN			
Management Protocol	RADIUS, TR-069*			
PRI switch types	Euro ISDN, nation, Q.SIG			
CAS	MFC R2 (Argentina, Brazil, China, Czech Republic, Colombia, Ecuador, Indonesia, ITU, Mexico, Philippines, Venezuela)			
SS7	ITU, ANSI, China			
Dimensions H*W*D(mm)	260*153*30		440*200*44	
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			
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			

Technical Specification:

SMG4000 provides customers with efficient communication efficiency and helps them create more values, and both system integrators and users could benefit from a more reliable and versatile manner of transition between wireless and IP networks. Some of specific values include:

- Integrated "Gateway Plus Built-in SIM Bank" architecture for better communication efficiency;
- DSP-enabled voice optimization to assure crystal voice quality and maximize bandwidth efficiency;
- High security and privacy for users via automatic-exchange of different SIM cards and Networks;
- High-speed response and connectivity in the extreme network environments, with better run efficiency;
- Telecom grade reliability and continuous high performance in fully loaded capacity and in the long run;
- Homegrown hardware and software technologies to guarantee relevant upgrading and customization;
- More compact hardware design to save space and ensure advantages of power consumption and cost;

Operator & Frequency

Model	Frequency
2G	
SMG4000G	GSM:850/900/1800/1900MHZ
SMG4000C	CDMA:800MHz
SMG4000GZ	GSM:850/900/1800/1900MHz
3G	
SMG4000W	GSM:900/1800MHz UMTS:900/2100MHz
SMG4000WA	GSM:850/900/1800/1900MHz UMTS:850/1900MHz
SMG4000WT	GSM:850/900/1800/1900MHz, UMTS:850/2100MHz
SMG4000WZ	GSM:8850/900/1800/1900MHz UMTS:50/900/1900/2100MHz
4G	
SMG4000LC	FDD LTE:B1/B3, TDD LTE:B38/B39/B40/B41 TDSCDMA:B34/B39, WCDMA:B1, CDMA2000:BC0 GSM:1X/EVD, 900/1800MHz
SMG4000LE	FDD LTE:B1/B3/B5/B7/B8/B20, TDD LTE:B38/B40/B41 WCDMA:B1/B5/B8, GSM:B3/B8
SMG4000LV	FDD LTE: B4/B13
SMG4000LT	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28; LTE TDD: B40 WCDMA: B1/B2/B5/B8; GSM: B2/B3/B5/B8

SMG4000 Technical Values:

- Future-Proof Architecture

With the latest edge-cutting technology, not only satisfy today's needs, but meet the future needs, including Cloud, Mobility and UC;

- Customizability For Your Need

According to actual needs of users, offer free custom-made services, new features, help users to achieve differentiated advantage;

- Rich Functionalities for Diverse App.

Combining requirements of thousands of users, SMG4000 owns a wealth of functions to meet both personalized and standardized needs;

UNIWAY
Hybrid VoIP Gateway & UC Platform

- Interface with FXO, FXS, T1, E1, GSM, CDMA, 3G, VoLTE, IP
- Optional Inbuilt Server, Standalone for any applications
- Telco Grade Standards in Both Hardware and Software

In hybrid VoIP & TDM era with diverse and rapidly-growing needs of unified communications and services, Synway UNIWAY VoIP Gateway adopts the latest modular architecture with built-in server, and opens a new milestone to maximize VOIP and TDM network's value for SP and application developers. One of major advantage of UNIWAY is to reduce time to market and introduce innovative applications more efficiently and effectively. Tailored to satisfy diverse customers' needs, UNIWAY, with its open and standardized format, enables users to develop a range of applications.

The hybrid architecture of UNIWAY allows for standard protocols between different network components and ensures high independence and interoperability, which better caters to sophisticated communications. Also, in the Mobile Internet Era, UNIWAY brings about efficiency and unparalleled cost advantages for developers by optimizing R&D and integrating an array of data, voice, video and other applications.

| VoIP | Hybrid | IP2Tel Tel2IP Route | Carrier Selection | USSD |
| Cloud | VLAN | SMS | VPN | QoS |
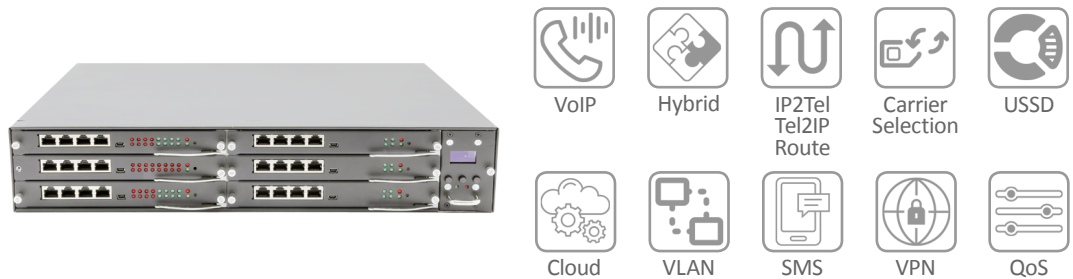
Key Features and Benefits

- **Flexible configuration for any network**
Compliant with diverse networks (FXO, FXS, T1, E1, J1, GSM, CDMA, 3G, VoLTE, IP): support various multimedia processing capability (conferencing, fax, compression and SuPerFormTM echo cancellation for voice enhancement and an array of Protocols (SS7, SIGTRAN, ISDN PRI, CAS, R1, R2, Wireless)

- **Compliant with any IP-Based applications**
With optional inbuilt industrial server, UNIWAY series are compliant with any IP-based applications; it also even supports any category of third party software, including UC, IP-PBX, Contact Center and more. In legacy PSTN network, UNIWAY could converge applications via internal modules.

- **Low to High Scalability**
Modular architecture ensures flexibility and expandability from low density to high density. Modular design allows for easy configurations, system upgrading or general maintenance

- **Multimedia Convergence**
Adopt 1000M-Ethernet switching chipset, UNIWAY's media stream exchanges in IP packets, and access to soft switching system via Media Gateway Controller, ensuring high-level applications are streamlined

- **Diverse Media Resources**
Support high-capacity voice playback and Codecs, conferencing, faxing; Support T.38/T.30; optimized for IP-PBX, IVR and ACD applications, with EXT IVR server or GUI management.

- **Carrier-Grade Reliability**
Special power system with standby redundancy; advanced cooling system to reassure long-standing robustness ; special air cleaner to protect against dust accumulation inside chassis; Inside temperature control and alert system; No need to change wiring when changing functional modules.

Technical Specification:			
Features　　　　　　　Model	UNIWAY2000/UNIWAY2100		
Functional module available:	UMG-1016: 16*FXO, 16*FXS, or hybrid 8*FXS+8*FXO	UMG-2012: 1, 2, or 4E1(T1)	UMG-4008: 4 or 8 Wireless Ports (GSM/CDMA/WCDMA/3G/4G)
Voice Processing Codecs	A-law, μ-law, PCM8, PCM16, IAM-ADPCM, VOX, MP3, GSM, G.729A/B,G.722,G.723, iLBC etc;		
Signaling interface	SS7 supports MTP, TUP and ISUP, SCCP, TCAP, MAP		
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)		
Network Interface	E1/T1/J1/FXS/FXO 2 *TCP/IP 1,000M Ethernet (RJ-45); 2 *LAN Ethernet (RJ-45); 4 USB ports;		
Development Environment	Windows OS: Windows2000/XP/2003/Vista/NT; Linux OS: Including RH7.2/RH9.0/AS4/FC4/SUSE10; Programming language: ANSI C/C++,Microsoft Visual C++,C#,Delphi		
Security and Certifications	Lighting-proof grade: Level 4; Certification: FC/CE/China CCC For RoHS compliance, please contact Synway's sales representatives;		
Physical Characteristics	Dimensions: 2U form factor: 88.1mm (H) x 482.6mm (W) x 430mm (L) Net Weight: about 8Kg (different for the number of optional modules)		
Power Requirement	AC: 90-120V or 200~265V (SELECT RIGHT RANGE ON SHELF), Frequency: 50~60Hz; Power consumption: different for configuration, less than 350Watt;		
Environment Requirement	Ventilation: normal; Operating temperature: 0°C-40°C; Relative humidity: 10%-85%; Avoid dust accumulation; Anti-electrostatic: please Grounded; Installation recommendation: mounted on standard 19-inches rack;		
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		

SBC

Next-Generation Session Border Controller for Enterprises, SPs & Carriers

- Dedicated DSP and Processor Chipsets for 0~500Chs Transcoding
- Decades of Field-Proven Technologies for Highest Level of Security
- Standardize Diverse Proprietary SIP protocols in Global Networks
- Support Intelligent Network Monitoring, Management & Diagnosis

With the development of VoIP technology, VoIP communication applications for enterprise, service providers and carriers become ubiquitous. To empower them to harness and exploit IP-based communication networks efficiently and effortlessly, Synway's new generation session border controller, SBC500, redefines and safeguards smooth interoperability among diverse multimedia applications, complete standardization among different IP protocols and the highest level of security in any networks.

SBC(Session Border Controller), an organic component of communication solution, often is implemented as connection point between internal and external networks, being used for bridging IP-based multimedia transmission among different IP network and ensuring communication security in networks of enterprises, services providers and carriers.

Key Features and Benefits

- Basic Features and Functions

▫ Dos/DDos protection	▫ Support IPV4, IPV6 and VPN
▫ QOS/ TOS/DSCP setting	▫ Load balancing
▫ Signal encryption(TLS/IPSec)	▫ Transmission speed limit
▫ Media encryption(SRTP)	▫ RTP encoding/decoding
▫ NAT transverse	▫ Anti-phreaking
▫ SIP/H.323/H.248 interworking	▫ Redundancy and Backup

- Flexible Scalability for Enterprises, SPs, Carriers

1-500 simultaneous SIP sessions with dedicated DSP-powered multimedia transcoding provide high performance in a small footprint to help lower ownership cost and reassure high security at borders.

- Ensure Highest Level of Operational Security

SBC500 offers real-time communication surveillance solution for enterprises/SPs/carriers communication systems, and helps them deliver any business-driven applications effortlessly and safely.

- Deliver Hi-Flexibility for Session Management

Secure connectivity and controlling can be offered by SBC, as it efficiently supports bilateral and multilateral interconnection among different networks; besides, Dialing and IP/PSTN routing available.

- Improve Communication Integration Capability

SBC bridges operators with enterprise communication networks seamlessly, rationalizes traffic, streamlines business procedures, and optimizes SIP trunking, PBX/H.323/SIP and VoIP applications.

- Balance Resources and Optimize Loading

Load protection at the border of network provides highly differentiated voice and multimedia services through multi-level resource-balancing policies, registration limit, ID authentication and authorization.

- Integrated Transcoding for Voice & Video

Eliminate need to add separate hardware to support transcoding requirements, and support a range of Codecs, including G.723, G.729, G.711, iLBC, SIPINFO, RFC2833, RF3261, INBOUND and more.
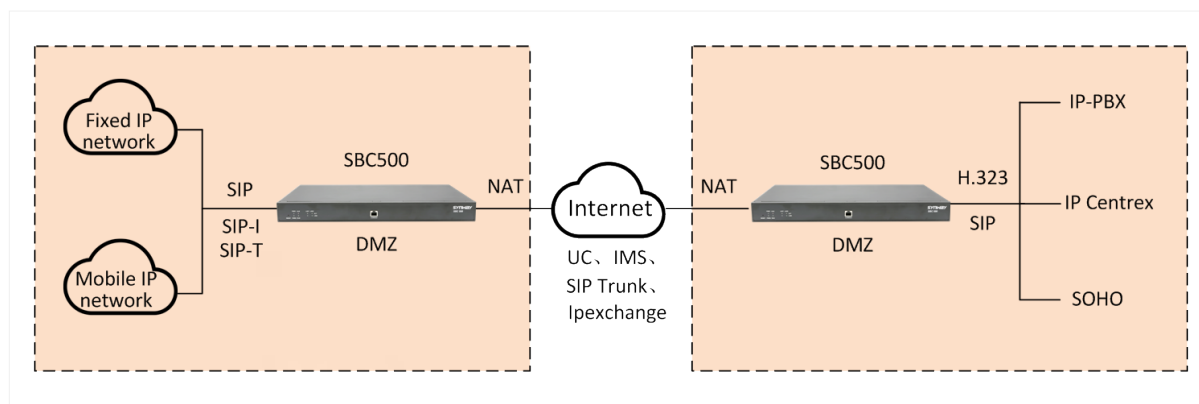
• Improve communication security at the border between internal and external networks

Technical Specification:

Features \ Model	SBC				
Sessions	30	60	120	240	480
Input/output Interface	Amount: 2(10/100/1000 BASE-TX(RJ-45)) Self-adaptive bandwidth: Supported Auto MDI/MDIX: Supported				
Console Port	Amount:1(RS-232) Baud rate:115,200bps Connector:RJ45/Customizable Data bits:8 bits Stop bit:1 bit Parity:Unsupported Flow control:Unsupported				
Signaling Protocols	SIP:SIP V1.0/2.0, RFC3261				
Audio Encoding & Decoding	G.711A 64 kbps G.711U 64 kbps G.729 8 kbps G723 5.3/6.3 kbps G722 64 kbps AMR 4.75/5.15/5.90/6.70/7.40/7.95/10.20/12.20 kbps iLBC 15.2 kbps				
Dimensions	L×H×W=440mm*44mm*267 mm				
Net Weight	3.1kg				
Environment	Operating temperature:0°C-45°C Storage temperature:-20°C-85°C Operating Humidity:8%-90% non-condensing Storage humidity:8%-90% non-condensing				
Power Requirements	Input voltage:100-240V AC Maximum power consumption:≤22W				
Sampling Rate	8 kHz				
Safety	Lightning resistance:Level 4				

SBO
Transcoding Gateway

- Support Complete DSP-enabled Transcoding Range
- Highly Efficient Coding & Decoding IP/TDM Network
- Support 500/2000-Port of Transcoding Capability per Unit

With the popularity of IP communications, increasing need for transcoding between various protocols and coding formats becomes more important. Large-capacity VoIP applications call for high efficient transcoding functionality. Normally, designated hardware-enabled transcoding equipment, not software-based, would be the best option for high demanding VoIP carrier.

To address the transcoding issue, Synway's hardware-based SBO transcoding gateway could help VoIP operators achieve multiple transcoding in IMS or PSTN network.

SBO adopts 1U standard design and built in LINUX OS based upon POWERPC+DSP hardware infrastructure. Each chasis supports dual Ethernet interfaces. With transcoding, routing, number filtering, number transformation and other functionalities, SBO serves as the perfect connectivity point between IP network and any IP devices.

Key Features and Benefits

- Compliance with diverse protocols

Supports SIP signaling protocols: SIP V1.0/2.0, the RFC3261); diverse codecs: G.711A, G.711U, G.729, G723, G722, AMR, iLBC DTMF mode RFC2833, SIP info, INBAND; Network protocols: TCP / UDP, HTTP, ARP/ RARP, DNS, NTP, TFTP, Telnet, STU.

- User-friendly GUI

With web-based management software, you can administrate and configure the SBO gateway remotely and check running status, call statistics, call routing, etc.

- Optimize Communication Efficiency

Process large capacity voice forwarding and up to 500-2000 concurrent IP transcoding, ensuring high efficiency for whole VoIP system. With SBO transcoding capability, systems could handle highly scalable surging calling traffic. With intelligent routing configurations, SBO could conduct flexible IP-IP routing in distributed or centralized communication system.

- Advanced Features for Different Network Environments

Supports dual Ethernet interface for telecom redundancy. With number transformation and filtering functionality, SBO could remove the head or end of number, or add a prefix or suffix, while needed.

- Embedded Infrastructure, Crystal Clear Voice Quality

Introducing embedded hardware for transcoding, as well as Telco-grade echo cancellation technology to ensure HD voice quality. SBO gateway also embraces dual power for redundancy.

SIM Bank

Manage the SIM Cards Smartly and Romotely

- Up to 128 cards slot in single chassis
- Support all SIM cards categories worldwide
- Deliver unmatched level of unblocking security

SIMbank is Synway's latest security device used jointly with Synway's SMG4000 series wireless gateway through the network. With SIMbank, SMG4000 wireless can leverage SIM cards remotely, which realize interdependency and separation between Wireless gateway and remote SIM cards. In addition, as a compliant software in SIMbank, SIMcloud centralized management system for unified management could administrate SMG4000 wireless gateway and SIMbank to form low-to-high density wireless-IP calling system.

Basic Introduction

The main function of SIMbank is to manage and assign SIM cards on remote. SIMbank could identify categories of SIM cards, manipulate the mobile numbers for any designated SIM card, authorize Administrator, ensure that resources and data security, and monitor the whole system status. It also supports TCP/UDP, HTTP, ARP/RARP, DNS, NTP, TFTP, TELNET, STUN IP and other network protocols, and realizes address modification and dynamic allocation of IP address, domain name analytic and other functions.

Key Features and Benefits

- 64/128 SIM card slots;
- 1U height, 19-inch chassis;
- Long * height * deep: 440*44*200 mm;
- 12V DC power supply, 2*RJ45 interface;
- Embedded Linux system, and upgraded on remote;
- FPGA adopts online loading mode to upgrade system rapidly;

SIM Cloud

Cloud-based integrated SIMcloud platform is used to manage and monitor SMG4000 series wireless gateway and SIMbank device, as well as configure and administrate SIM cards on remote.

- SIMbank and SMG4000 series Wireless Gateway could be managed through software registration;
- SIMcloud is software based on PC or server Simserver;
- Support remote SIM card management and information exchange;
- Support forwarding and configuration of SIM card information;
- Support local virtualization of remote SIM cards;
- With Web Management interface;
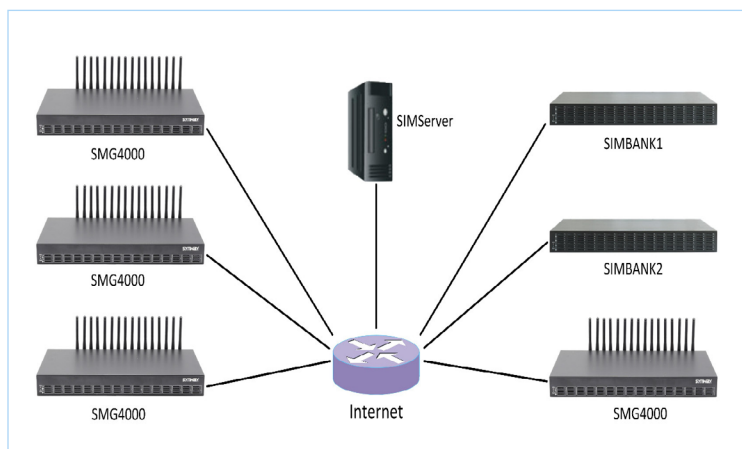
- SIMcloud based on SIMserver realizes the communication and management between SIMbank and SMG4000 Wireless Gateway, and isolates SIM cards from remote wireless gateways.

Technical Specification:

Features / Model	SIM64/128
SIM Slots	64/128
Network Port	Amount: 2 (10/100 BASE-TX (RJ-45)) Self-adaptive bandwidth supported Auto MDI/MDIX supported
Console Port	Amount: 1 (RS-232) Baud rate: 115200bps Connector: Mini-USB connecting line Data bits: 8 bits Stop bit: 1 bit Parity unsupported Flow control unsupported Note: Follow the above settings to configure the console port; or it may work abnormally.
Network Protocols	IP v4, UDP/TCP, PPPoE, DHCP, FTP/TFTP ARP, RARP, NTP, HTTP, Telnet
Power Requirements	Input power: 100-240V/50-60Hz AC Input Current: 1.2A
Dimensions	L×H×W=440mm*44mm*200 mm
Net Weight	2.4kg
Environment	Operating temperature:0°C-45°C Storage temperature:-20°C-85°C Operating Humidity:8%-90% non-condensing Storage humidity:8%-90% non-condensing

- Simplest Way to Resolve Most Sophisticated Requirements

With complete understanding about enterprise and carrier's headaches, Synway's SMG VoIP Gateway adopts the simplest and straight-forward configuration to achieve users' most sophisticated objectives. With this configuration toolkit, IT managers from enterprises and carriers could control VoIP gateways effortlessly and efficiently, despite of their limited knowledge about VoIP gateways. With minimum time and expenditure, enterprises and carriers gain maximum values.

- User-friendly WEB Management

User-friendly WEB management tool has been built into Snyway SMG series gateway, and users could log in their account to manage all synway gateways via web and effortlessly monitor real-time operation status, system information, PSTN line status and other data and information, which helps users to save the cost on network management and maintenance.

Figure 1: Basic data display

Figure 2: call statistics

- Flexible VoIP Configuration

Five types of VoIP setting are available, including SIP Setting, SIP Trunking setting, SIP account setting, SIP trunk group setting and media setting.

- Compliance with a complete range of protocols

Synway SMG series gateway seamlessly complies with various protocols. Fitting to a variety of communication environments, SMG family could configure PCM parameters via web-based management software. The PCM Settings includes five categories: PSTN, PCM, PCM trunk group, calling-reception rule, and reception timeout.

Worthy of notice, users could set up SS7 parameter in the menu only when the configuration item "Signaling Protocol" in the PCM settings is set to SS7-TUP or SS7-ISUP. SS7 Settings includes eight ones: SS7, TUP, TUP Number Param, ISUP, Number Param, Original CalleeID Pool, Redirecting Number Pool (Hidden item) and SS7 Server.

ISDN setting is available in the menu only when the configuration item "Signaling Protocol" on the PCM settings interface is set to ISDN User Side or ISDN Network Side. Moreover, SMG web management software also could set other parameters, such as fax, routing, number filtering, and number manipulation and so on.

- Simple Configuration for Media Processing

With the popularity of IP communications, increasing need for transcoding and media processing between various protocols and coding formats becomes more significant.

DCMS
Device Cloud-Based Management System

- Real-Time Monitoring of VoIP Gateway Status
- Management Capability for More Than 10,000 Devices
- DCMS Features Cloud-based Management Capability
- Superior Network Access Traversal (NAT) Capability

Synway Device Cloud-Based Management System (DCMS), based on the Internet, is used for monitoring, maintenance and debugging for Synway's VoIP gateways on the field. It helps users leverage Synway's products efficiently and unfailingly, as well as improves controllability and manageability over entire communication systems.

Key Features and Benefits

- Real-Time Monitoring of VoIP Gateway Status

DCMS is a unified management platform developed by Synway to manage all Synway's VoIP gateways remotely, providing centralized monitoring and management over Synway VoIP gateways in the networks.

- Management Capability for More Than 10,000 Devices

DCMS could monitor over 10,000 SMG series VoIP gateways simultaneously, but it just consumes less than 10% CPU processing capability for registration and connectivity procedures.

- DCMS Features Cloud-based Management Capability

Two types of cloud-based management modes are delivered by DCMS: public cloud mode managing devices online through public cloud platform, and private cloud mode in which DCMS users could implement Synway's dedicated software for devices management.

- Superior Network Access Traversal (NAT) Capability

DCMS possesses automatic NAT traversal capability, and need not configure port mirroring setting while building up connection between intranet and internet, or between any networks.

- Relevant Allocation of Communication Resources

DCMS could improve operational and maintenance efficiency and optimize communication resources for users. In large-scalability communications systems, DCMS could reasonably and effectively allocate communication resources to better fit to specific application scenarios, helping users build VoIP communication system with minimum CAPEX and OPEX.

SMG1000

• The Best Cost and Reduce OPEX by 50%

More HW/SW technologies are adopted to solve core technological problems, and which assures system ran efficiently in the endurable complex communication environments.

• Excellent voice quality and telco-grade reliability

DSP-enabled voice optimization to assure crystal voice quality and system agility as well as maximize bandwidth efficiency;

• Eliminate headaches in rival products

The performance and function can be renewed and updated by advanced synway-own technology, ensuring voice detection of FXO calling and DTMT accuracy, Comply with most platforms, Plug and Play.

• High-speed response with minimum bandwidth

High-speed response and connectivity in the extreme network environments, with better run efficiency;

• User-friendly GUI and central administration

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

• Customizability Satisfies all Specific Needs

Homegrown inherited soft-hard technology to renew and update performance and functionalities. More compact hardware architecture saves space and assures unparalleled power consumption and cost;

LegacyTerminals to IP PBX

OBD

TDM PBX to IP PBX
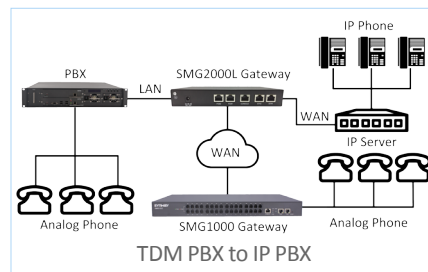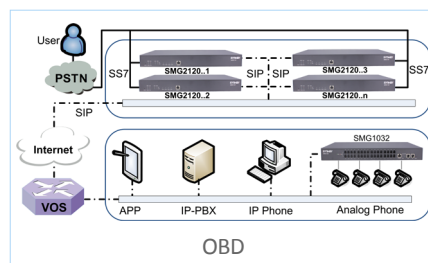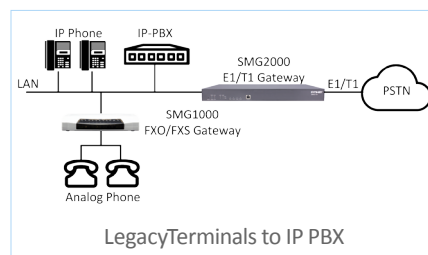
SMG2000

SMG2000L/2000, the smallest sized and most economical E1/T1 PRI/SS7 SIGTRAN Gateway, adopts long standing field-proven voice processing technologies, based on continually optimized algorithm of dedicated chipsets in diverse networks. It could offer high audio quality, despite of low bandwidth in extreme environment. For that, enterprise users could enjoy smooth communications effortlessly and efficiently, in situations of restricted bandwidth and high density switching.

• Support and interface with any applications and platforms based on E1/T1 networks for carrier, SPs, enterprise;

• User-friendly configuration, GUI, centralized administration, customizable features and functionalities;

• DSP-enabled voice optimization to assure crystal voice quality and maximize bandwidth efficiency and reliability;

• High-speed response and connectivity in the extreme network environments, with better run efficiency;

• Telecom grade reliability and continuous high performance in fully loaded capacity and in the long run;

• Homegrown core technologies, Mini-sized footprint assure unparalleled cost and user convenience for enterprises and SPs;

LegacyPBX to IPPBX

LegacyPBX to SIPTrunking
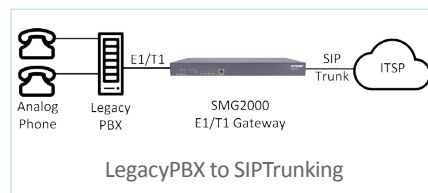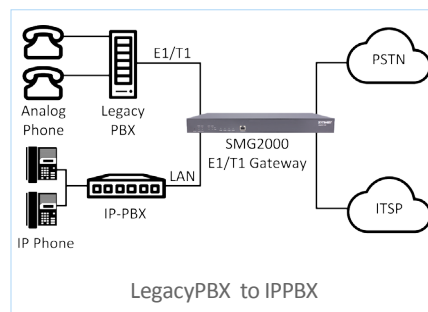
SMG3000

• Build-in SS7, SIGTRAN, SIP, ISDN, R2

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;

• Maximum CPS(Calling Per Second)

Telecom-style DSP algorithm has been optimized for over decades, assuring seamless compliance with any network environment. Plentiful DSP resources are allocated for maximum calling per second (CPS), signaling, media processing, bandwidth optimization, Telco redundancy;

• 99.9999% Availability in Full Load

Support 1/2/4/8/16/64E1 (30/60/120/240/480/1,920Chs) 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 Cloud-based 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 1,000 units of SMG3000 can run together; User-friendly configuration, GUI, centralized administration, customizable features and functionalities;

• Robust Telco-Grade Architecture

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

LegacyPBX to SIPTrunking

VNO

OBD
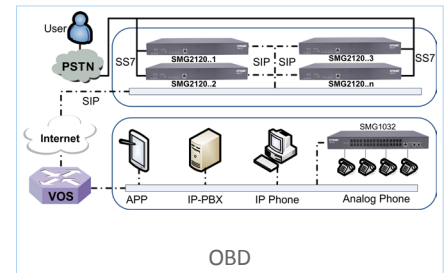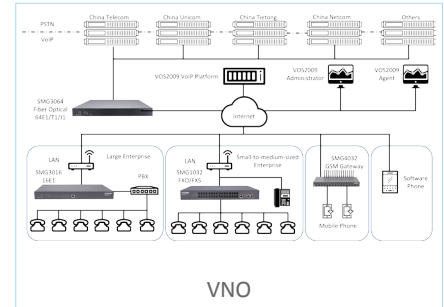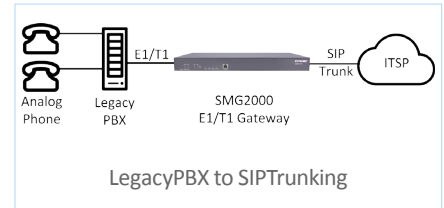
SMG4000

• Support a Range of System

Could be applied into a range of systems, including, mobility PBX, PSTN backup lines, VoIP localization, SMS notification platform, cloud-based services, contact service center, and GSM/CDMA Trunking.

• Seamless Interoperability

Compliable with a variety of wireless/mobile protocols (2G/3G/4G), enabling interconnection between GSM/CDMA/WCDMA/VoLTE network and VoIP network smoothly and safely.

• Higher Business Values

Integrated "Gateway Plus Built-in SIM Bank" architecture (SMG4016/4032) for better communication efficiency. Mobile SMS-based commercial delivers advantages of low cost, dismiss complexity, and also save time and human cost.

• Perfectly Combine Voice & Data

DSP-enabled voice optimization to assure crystal voice quality and maximize bandwidth efficiency; separately process voice or data transmission, or handle simultaneous voice and data transmissions in a single system.

• Hi-Speed & Accuracy Processing

Field-approved in diverse extreme environments, including low bandwidth and unstable wireless signals. High-speed response and connectivity in the extreme network environments, with better run efficiency.

• Boost Operational Efficiency

Significantly improve operation efficiency while applying SMG4000 in the data processing & SMS transmission. Telecom grade reliability and continuous high performance in fully loaded capacity and in the long run; Homegrown hardware and software technologies to guarantee relevant upgrading and customization.

Hosted Cloud Service

Call Center

SMS
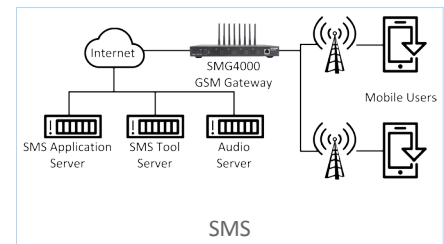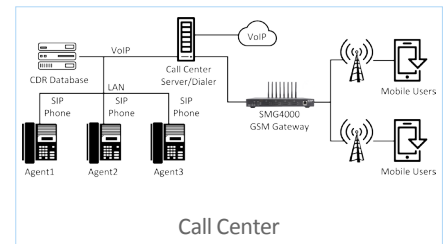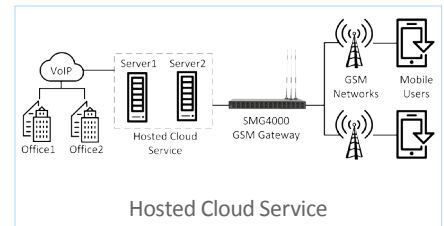
Synway ®

Since 1992

CTI and VoIP Gateway

1000+ Employees

3000+ Partners

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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