

# SMG 1000-D4S FXS VoIP Gateway

With a simple and economical way to help legacy telephone, fax machine and PBXs interconnect with IP network, Synway's 4 ports analog FXS gateway enables call center and multi-branch enterprises to process powerful, versatile and efficient VoIP solutions with unparalleled cost advantages. Connected between a PBX, LAN or WAN, the 4 ports FXS VoIP Gateway converts analog PSTN messages into a format suitable for transmission over standard IP networks.

Designed for voicemail and unified messaging applications, the 4 Ports Analog VoIP Gateway SMG1000-D4S has a 10/100/1000M (optional) Base-T Ethernet connection for connecting legacy PBX to a LAN. The analog loop start functionality supports integration via in-band signaling (DTMF or FSK), serial protocols, as well as T.38 for fax transmissions over IP (FoIP).



### Highlights

#### Benefits Key Features

- High performance VoIP connectivity for SMBs
- Voice optimization to ensure better user experiences
- Enhanced call routing ability with high voice quality
- Easy to install, configure, and maintain
- Support IPv4 and IPv6 international network
- Data/voice/management VLAN and more
- Build-in firewall and access rules
- Support SNMP/TR069/Auto-Provision
- Cloud-based management and bandwidth optimization
- Support SIP, MGCP or other customizable protocols
- Primary/Backup SIP Servers
- Flexible routing and manipulation

- Completely non-blocking architecture and Scalable System
- Easy integration with existing telephony interfaces
- Open-standard SIP support and register to multiple SIP proxy servers
- Make and receive IP calls from analog extensions
- Call budgeting based on allocated amount, minutes and call count
- Manageable based call routing TDP-IP/IP-TDM
- Restrict unwanted calls with list of denied numbers
- Real-time call record send to CDR server
- Caller ID presentation and restriction
- Hotline extension setting
- Web-based remote administration
- Consol access via Telnet, SSH.



## SMG 1000-D4S FXS VoIP Gateway



- Support 4 FXS Ports, Field Approved Globally
- Superior Voice Quality by Designated DSP Chipsets
- User-Friendliness and Web-based Administration

#### **Technical Specifications:**

• Physical Interface

Phone Interface: 4 Ports FXS, RJ-11 available as well

Ethernet Interface: 2\* RJ-45 10/100Mbps Base-T Ethernet, Female RJ-45

1000M LAN/WAN available for some product models while required

• Session Capacity

4 SIP channels (SMG1000-D4S)

4 FXS channels (SMG1000-D4S)

Connectivity

Dial Mode: DTMF and Pulse

Pulse: 10 and 20PPS

Caller ID:DTMF/FSK

Max Cable Length:5KM

Reversed Polarity

OpenVPN

VoIP Protocols

TLS / SRTP

OpenVPN

SIP V2.0 (RFC 3261, 3262, 3264)

IMS/3GPP

SDP

REFER (RFC 3515)

RTP/RTCP

STUN (RFC3489)

ARP/RARP (RFC 826/903)

SNTP (RFC 2030)

DHCP/PPPoE

TFTP/HTTP/HTTPS

DNS/DNSSRV (RFC 1706/RFC2782).

VLAN802. 1P/802.1Q.

Call & Routing

Port Groups

IP Trunks

Primary and Secondary SIP Account

4 Inbound/Outbound Routing

Number Manipulation

Digit maps

TDM to IP or IP to TDM

IP load balancing

IP fault tolerance

Voice Capability

G.711A/U law, G.723.1, G.729A/B,G.726,iLBC,AMR

Comfort Noise Generation(CNG)

Echo Cancellation(G.168)

DTMF mode: Signal/RFC2833/INBAND

Silence suppression with comfort noise

G.168 automatic echo cancellation

Call Progress Analysis (CPA), including Positive Voice Detection, Positive

Answering

Machine Detection (PAMD), DTMF detection, and fax tone detection

Manageable based call routing TDP-IP/IP-TDM.

Restrict unwanted calls with list of denied numbers.

Voice Activity Detection (VAD)

Adaptive (Dynamic) Jitter Buffer

Programmable Gain Control

Hook Flash

FoIP Protocol & Faxing

T.38 for transmission over a packet network

T.38/Pass-through, up to 14.4kbps



## SMG1000-D4S FXS VoIP Gateway



T.38 FoIP: transcode fax from T.30 fax protocol (supporting V.17) modulation schemes

#### • Network Capability

Static IP, PPPoE, DHCP Client

IPv4, IPv6

Static/dynamic ARP

DIFFServ, ToS

NAT (Rout and Bridge)+

MAC Address Clone

Static routing+

**Built-in Firewalls** 

QoS, Traffic Shaping

Voice/Data/Management Vlan

#### Maintenance & Upgrading

SNMP/TR069.

**Auto Provision** 

Action URL

Digit map

Web/Telnet. ACL

Configuration Backup/Restore

Bandwidth Optimization

Routing Rules based Prefixes

Firmware Upgrade via WEB

Syslog and CDR.

Access Rule list.

Network Capture

Outward Test(GR909).

Automatic Time Synchronization

IVR local Maintenance.

Cloud-based Management

Caller/Called Number Manipulation

Open-standard SIP support and register to multiple SIP proxy servers.

#### Application Capabilities

Call waiting

Blind Transfer

Attend Transfer

Call forward on Busy

Call forward on No Reply

Unconditional Call Forward

HotlineCall hold

DND

Call Pickup

3-way conference

Voicemail

#### • Conferencing Resource

Call budgeting based on allocated amount, minutes and call count

Complete non-blocking architecture and Scalable System

Hotline extension setting

Support 3-Way and Multi-Way Conferencing

#### Environment & Power

Power Supply: 100-240V, 50-60Hz+

Power Consumption: Approximately 20W

Temperature(Operation):0 °C ~ 45°C

(Storage): -20 ~85°C

Humidity: 10%-90% No condensation.

Operating temperature range: -10 °C ~ 55°C

#### Physical Dimension

L\*W\*H 140(mm)\*100(mm)\*30(mm)

Weight Approximately 0.44ibs(about 0.2kg)

#### • Warranty/Certifications

3 years: The first year exchange for free. On the Second & Third free to repair.

CE, FCC or Any other Certificates Customizable

Broadsoft, Elastix, Asterisk, Teams and other UC platform