

# SAG1000 Gateway

SAG1000 is a perfect hardware product for the telecom carriers to provide the residential telephony, IMS/NGN, radio over IP and fax services through the IP networks such as MPLS, HFC, and ADSL. It can be connected to the traditional Radio system, PBXs to provide the voice solutions for Large enterprises, Government, and SME. It can also serve as a hotline service for remote terminal (peer-peer).

## HIGHT LIGHT

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- ◆ *2-8 Ports FXS/FXO*
- ◆ *WAN failover routing*
- ◆ *SIP Standard*
- ◆ *SIP TCP (For Lync server)*
- ◆ *IMS/NGN Network support*
- ◆ *Flexible Routing and Manipulation*



SAG1000-2/4FXS



SAG1000-8FXS/4,8FXO

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## Main Feature

### **Easy to operate and maintain**

SAG1000 supports both web-based and text-based configuration set up. Users can remotely upgrade the software, Capture Voice streaming/SIP message, change the configuration parameters, download log files.

### **High Interoperability**

SAG1000 has passed the interoperability tests with many softswitch and gateway suppliers worldwide, such as Huawei,ZTE, Cisco, Alcatel, Lucent, Panasonic, NEC, Harris, Nortel, and open source hosted IPPBX asterisk.

### **FAX over IP (T.38/Pass-through)**

SAG1000 support FAX T.38 as default. FAX T.38 is the preferred method for FAX over TCP/IP because it is more reliable and works well in most network conditions. Anyway, If the service provider does not support T.38, FAX pass-through mode may be applied.

### **Investment Protection**

One main challenge of purchasing new IP-based voice equipment's is how to protect your investment. SAG1000 not only offers the best cost effectiveness but also supports the latest VoIP technologies and of the standards. Users can take advantage newest VoIP technologies by upgrading SAG1000 software.

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## Specification

TECHNICAL SPECIFICATIONS	
<b>Physical Interfaces</b>	<b>Network</b>
<ul style="list-style-type: none"> <li>• 2FXS/4FXS/4FXO/8FXS/8FXO with RJ11</li> <li>• 1 x port Ethernet TCP/IP 10/100 BaseT with RJ45</li> </ul>	<ul style="list-style-type: none"> <li>• NAT (Rout and Bridge)</li> <li>• Static IP, PPPoE, DHCP</li> <li>• DHCP server</li> <li>• MAC address clone</li> <li>• DMZ, Static routing</li> <li>• IP,TCP, UDP,TFTP, FTP, TCP,ARP,RARP, Ping , NTP, SNTP, Http, DNS, Trancert, IPV4,IMS/NGN network, Voice&amp;Data VLAN</li> <li>• Static/dynamic ARP</li> </ul>
<b>VoIP Specifications</b>	<b>Call Features</b>
<ul style="list-style-type: none"> <li>• G.711A/U law, G.723, G.729A/B</li> <li>• Comfort Noise Generation(CNG)</li> <li>• Voice Activity Detection(VAD)</li> <li>• Echo Cancellation(G.168)</li> <li>• Adaptive (Dynamic) Jitter Buffer</li> <li>• Hook flash test</li> <li>• Programmable Gain Control ( TX/RX gain adjust)</li> <li>• T.38/Pass-through/Modem FAX mode, Up to 14.4kbps</li> <li>• DTMF mode: Signal/RFC2833/INBAND</li> <li>• Polarity reversal mode</li> <li>• Up to 1 km copper wire cable length</li> <li>• 12/16 KHz Metering Pulse (Option)</li> </ul>	<ul style="list-style-type: none"> <li>• Call waiting</li> <li>• Call transfer(Blind transfer, Attend Transfer ,Half blind transfer)</li> <li>• Quick pick</li> <li>• Call forwarding</li> <li>• Hotline</li> <li>• Call hold</li> <li>• DND</li> <li>• 3-way conference ( 1/2/4FXS Support )</li> <li>• Voice mail</li> <li>• Direct IP address call</li> </ul>
<b>SIP Protocol</b>	
<ul style="list-style-type: none"> <li>• SIP V2.0 RFC( 3261,3262,3264) ,SIP REFER (RFC 3515) ,SIP TCP (FXS model only)</li> <li>• RTP/RTCP (RFC 1889,1890)</li> <li>• STUN (RFC 3489)</li> <li>• ARP/RARP (RFC 826/903)</li> <li>• SNTP (RFC 2030)</li> <li>• DHCP/PPPoE</li> <li>• TFTP/WEB HTTP/HTTPS</li> <li>• DNS/DNS SRV (RFC 1706/RFC 2782)</li> <li>• VLAN 802.1P/802.1Q</li> </ul>	

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<p><b>Call Routing</b></p> <ul style="list-style-type: none"> <li>• Port group</li> <li>• IP trunk</li> <li>• Primary and secondary SIP account</li> <li>• 32inbound/outbound routing</li> <li>• Number manipulation</li> <li>• Dial plan set</li> <li>• Failover to local routing when WAN link down</li> </ul>	<p><b>Compatibility</b></p> <ul style="list-style-type: none"> <li>• Fully compatible with mainstream vendors, such as HUAWEI softX3000, elastix, trixbox, voipswitch, asterisk etc.</li> <li>• Compatible with other standard Soft Switch and SIP server</li> </ul>
<p><b>Management</b></p> <ul style="list-style-type: none"> <li>• Web based configuration ,Port monitor (GUI)</li> <li>• Telnet configuration</li> <li>• Data backup/restore</li> <li>• Support English and Chinese language</li> <li>• Firmware upgrade by TFTP</li> <li>• Sys log and CDR</li> <li>• Web &amp; Telnet login password modify</li> <li>• Factory reset</li> <li>• Automatic time synchronization</li> <li>• QoS</li> <li>• Support NMS software for monitoring devices</li> <li>• LED Indicator status display</li> <li>• IVR local maintenance management (Restart/ Port/ IP address )</li> </ul>	<p><b>Environment</b></p> <ul style="list-style-type: none"> <li>• Power: input:100-240V,50-60HzOutput: 12VDC,1A</li> <li>• Power consumption (w): 20w</li> <li>• Temperature (operator): 0 °C~ 45 °C (storage): -20 °C~80 °C</li> <li>• Humidity: 10%-90% no condensation</li> </ul>
	<p><b>Dimension</b></p> <ul style="list-style-type: none"> <li>• 2FXS : 140(L)*86(W)*25(H) mm</li> <li>• 4FXS , 140(L)*86(W)*25(H) mm</li> <li>• 4FXO , 8FXS/O : 242(L)*152(W)*40(H)mm</li> </ul>

### For more information

Please visit: [www.suncti.co.th](http://www.suncti.co.th) or call 66-2-9610991-94 or email : [kit@suncti.co.th](mailto:kit@suncti.co.th)

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