SGX8000 Gateway

SGX8000 is carrier-grade NGN trunk gateway product for the carrier to provide the residential telephony ,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

♦ *8 x E1 ports*

♦ *Open Architecture*

♦ *Cost-effective*

♦ *SIP Standard*

♦ *NGN support*

♦ *Flexible Routing plan*

Main Feature

Easy to operate and maintain

SGX8000 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

SGX8000 has passed the interoperability tests with many softswitch and gateway suppliers worldwide, such as Huawei, ZTE, Cisco, Alcatel, Lucent, Panasonic, NEC, Nortel, and open source hosted IPPBX asterisk.

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

SGX8000 support FAXT.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. SGX8000 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 SGX8000 software.

SGX8000 Gateway

Specification

TECHNICAL SPECIFICATIONS

System Capacity

- 8 E1 ports

VoIP Specifications

- G.711A/U law, G.723.1, G.729A/B
- Silence Suppression & Detection
- Comfort Noise Generation(CNG)
- Voice Activity Detection(VAD)
- Echo Cancellation(G.168)
- Adaptive (Dynamic) Jitter Buffer
- T.38/Pass-through/Modem FAX mode
- Call Progress Tone Generation
- Programmable Gain Control

SIP Protocol

- SIP V2.0 RFC(3261,3262,3263,3264,3265, 3515,2976,3311)
- SDP –RFC 2327
- RTP/RTCP (RFC 2198,1889)
- SIP-T (RFC3372,3204,3398)
- SIP Domain register
- IP Group Management
- Trunk priority management
- Peer/Access work mode
- IP address/Domain authentication
- SIP User/Password register to remote

Physical Interface

- ISDN Interface: 4xE1/T1, G.703, 120Ω RJ-48
- Ethernet Interface: RJ45 FE0(WAN):service eth interface), FE1(LAN):management eth interface) 10/100M Base-T
- Management Interface: 1 Console port ,9600bps

Network

- IP,TCP, UDP,TFTP, FTP, TCP,ARP,RARP, Ping, NTP, SNTP, SNMP, Http, DNS, Trancert
- QoS control: ToS, DS

TDM Signal

- SS7/No.7 (optional)
  ITU, ANSI, ETSI, ITU-China, TP layer 1/2/3, ISUP/TUP
  SS7 circuit maintenance
  SS7 MTP link management
- PRI /PRA
  ISDN E1/T1 ITU-T I.431, Q.921, Q.931, ETSI Q.sig

Features

- DTMF：RFC2833, SIP INFO, INBAND
- Back tone/busy tone control
- Digit Map
- Dial rule configuration, max 2000 rules
- Overlap receiving
- Dial time control
- Time slot group management
- E1/T1 port group management

SGX8000 Gateway

Specification

TECHNICAL SPECIFICATIONS	

Feature (Continues)

- Many routing way

  PSTN-PSTN, PSTN-IP, IP-IP, IP-PSTN
- Intelligent routing
- Routing time control
- 99 routing
- Caller/callee manipulation
- 128 number manipulation

Management

- Web based configuration
- HTTP/Telnet configuration
- Data backup/restore
- Firmware upgrade by TFTP
- Web & telnet login password modify
- SNMP management
- Syslog: Debug, Info, Error, Warning , Notice
- NTP Configuration

Compatibility

- Fully compatible with mainstream venders, such as HUAWEI softX3000, elastix, trixbox, voipswitch, asterisk etc.

- Compatible with other standard NGN Soft Switch and SIP server

Environment

- Power: input: 100-240V,50-60Hz :
- Power consumption (w): 25w
- Temperature(operator): 0 ℃~ 45 ℃(storage): -20 ℃ ~80 ℃
- Humidity: 10%-90% no condensation

Dimension

- 436 x 300 x 45 mm, 1U high, 19-inch wide rack mount
- Weight: 2.6 kg

For more information

Please visit: www.suncti.co.th or call 66-2-9610991-94 or email : kit@suncti.co.th

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