



# SunComm

SunComm Technology Co., Ltd

## **SC-5001-4E1 SC-5001-8E1** **Trunk Gateway**

SC-5001 E1/T1 trunk gateway series is a multi-functional trunk gateway designed for large enterprises, telecom operators, call centers and providers of value-added services. It supports a range of signaling protocols, realizing the inter conversion between SIP/H.323 and traditional signals such as SS7 and PRI. It supports multiple codec methods G.711, G.723, G.729 and ILBC, improves the utilizing efficiency of trucking resources while ensuring voice quality.

SC-5001 E1/T1 trunk gateway series is with high-efficient design and strong DSP processor to ensure the inter conversion of PCM voice signal and IP packets, although the gateway has been fully loaded. It can be connected with multiple devices such as softs witches, PBX and those servers equipped with digital trunk interfaces.

### **Product Appearance**



### **Key Features**

- \* Efficient concurrent processing, up to 240 channels (4/8 E1)
- \* Easy capacity upgrades by cascade, up to 64 E1/T1 ports
- \* High reliability SS7 signaling point code solution
- \* Support T.38, Pass-through fax, as well as modem and POS machines
- \* Support multiple coding standards: G.711A/U, G.723.1, G.729A/B and iLBC
- \* High compatibility, interoperable with PBX of Avaya, NEC and Alcatel, and also leading soft-switch of Huawei, Cisco and ZTE etc.

# SC-5001-4E SC-5001-8E Trunk Gateway

## Physical Interfaces

- **E1/T1 Ports**  
4 or 8 E1/T1 (**SC-5001-4E1**, **SC-5001-8E1**)
- **Interface Type**  
RJ48 (Impedance 120Ω)
- **Ethernet Interface**  
FE1: 10/100 Base-T Adaptive Ethernet  
FE0: 10/100 Base-T Adaptive Ethernet
- **Serial Port**  
1\* RS232, 9600bps

## Voice Capabilities

- Codecs:G.711a/μ law,G.723.1, G.729A/B, iLBC 13k/15k
- Silence Suppression
- Comfort Noise
- Voice Activity Detection
- Echo Cancellation (G.168),with up to 128ms
- Adaptive Dynamic Buffer
- Voice ,Fax Gain Control
- FAX:T.38 and Pass-through
- Support Modem/POS
- DTMF Mode: RFC2833/SIP Info/In-band
- Clear Channel/Clear Mode

## PSTN

- ISDN PRI  
23B+D (T1),30B+D (E1), NT or TE  
ITU-T Q.921, ITU-T Q.931, Q.Sig
- Signal 7/SS7  
ITU-T, ANSI · ITU-CHINA  
MTP1/MTP2/MTP3, TUP/ISUP
- E1 Frame Type : DF,CRC-4,CRC\_ITU
- T1 Frame Type :  
4-Frame Multi-frame (F4,FT),2-Frame Multi-frame (F12, D3/4), Extended Super-frame (F24, ESF) ,Remote Switch Mode (F72, SLC96)
- Line Codes:  
E1:NRZ,CMI,AMI,HDB3  
T1:NRZ,CMI,AMI,B8ZS
- Clock  
Local/Remote Clock Source

## VoIP Protocol

- SIP v2.0 (UDP/TCP),RFC3261  
SDP,RTP(RFC2833), RFC3262,  
3263,3264,3265,3515,2976,3311
- RTP/RTCP, RFC2198, 1889
- SIP-T,RFC3372, RFC3204, RFC3398
- H.323
- SIP Trunk Work Mode :Peer/Access
- SIP/IMS Registration :with up to 256 SIP Accounts
- NAT: Dynamic NAT, Rport

# SC-5001-4E SC-5001-8E Trunk Gateway

## Software Features

- Local/Transparent Ring Back Tone
- Overlapping Dialing
- Dialing Rules , with up to 2000
- PSTN group by E1 port or E1 Timeslot
- IP Trunk Group Configuration
- Voice Codecs Group
- Caller and Called Number White Lists
- Caller and Called Number Black Lists
- Access Rule Lists
- IP Trunk Priority
- RTP and Signaling Encryption ( VOS RC4)

## Call Features

- Flexible Route Methods  
PSTN-PSTN, PSTN-IP, IP-IP, IP-PSTN
- Intelligent Routing Rules
- Call Routing base on Time
- Call Routing base on Caller/Called Prefixes
- 256 Route Rules for each Direction
- Caller and Called Number Manipulation

## Maintenance

- Web GUI Configuration
- Data Backup/Restore
- PSTN Call Statistics
- SIP Trunk Call Statistics
- Firmware Upgrade via TFTP/Web
- SNMP v1
- Syslog: Debug, Info, Error, Warning , Notice
- Call History Records via Syslog
- NTP Synchronization
- Centralized Management System

## Environmental

- Power Supply: 100-240VAC, 50-60 Hz
- Power Consumption:25W
- Operating Temperature:0 °C ~ 45 °C  
Storage Temperature: -20 °C ~80 °C
- Humidity:10%-90% Non-Condensing
- Dimensions(W/D/H): 436\*300\*44.5mm(1U)
- Unit Weight: 2.0kg
- Compliance: CE, FCC

**SunComm Technology Co., Ltd.**

7F, No.53, Jian-Kang Rd., Zhong-he Dist.,

New Taipei City, Taiwan 23586

Tel.: +886 2 3234 14996 Ext :115 Fax: +886 2 3234 1393

Website: [www.SunComm.com.tw](http://www.SunComm.com.tw) [www.SunComm.com.cn](http://www.SunComm.com.cn)