



*SunComm*

SunComm Technology Co., Ltd

## **SC-5001-16E1 Trunk Gateway with 16 ISDN PRI/ E1, support SIP protocol**



SC-5001-16E1 supports a range of signaling protocols, realizing the interconnection between SIP and traditional signals like SS7 and PRI. It supports multiple codec methods, offers signal encryption technology and smart voice recognition technology, and improves the utilizing efficiency of trucking resources while ensuring voice quality. The trunk gateway is ideally fit for various access networks of SMEs, call centers, telecom operators and large-scale enterprises.

### **Key Features:**

- Multi-port and high-integrated structure;
- Support 12E1, 16E1, 20 E1/T1 with 1U size Provide various services, such as VoIP, FoIP, Modem and POS
- Support flexible dialing rules and operations, allowing users to customize dialing rules according to different working environments

- 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.

### **VoIP Protocol:**

- NAT: Dynamic NAT, Rport
- 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
- SIP Trunk Work Mode: Peer/Access
- SIP/IMS Registration: with up to 256  
SIP Accounts

### **PSTN:**

- **ISDN PRI**  
23B+D(T1),30B+D(E1), NTor TE  
ITU-T Q.921, ITU-T Q.931, Q.Sig
- Signal 7/SS7  
ITU-T, ANSI · ITU-CHINA  
MTP1/MTP2/MTP3, TUP/ISUP
- E1Frame Type: DF, CRC-4, CRC\_ITU
- T1Frame 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

### **Physical Interfaces:**

- E1/T1 Ports: 4/8/12/16/20 E1/T1
- DTU Module: 4 E1/T1
- Interface Type  
RJ48(Impedance 120Ω )

- Ethernet Interface  
GE1: 10/100/1000 BaseT Adaptive Ethernet  
GE0: 10/100/1000 BaseT Adaptive Ethernet
- Serial Port  
1\* RS232, 115200bps

#### **Voice Capabilities:**

- Codecs: G.711a/μ law, G.723.1, G.729A/B, iLBC, AMR
- 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/Signal/Inband
- Clear Channel/Clear Mode

#### **Call Features:**

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

#### **Software Features:**

- Voice Codecs Group
- 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
- Caller and Called Number White Lists
- Caller and Called Number Black Lists
- Access Rule Lists
- IP Trunk Priority
- RTP and Signaling Encryption (VOS RC4)

### **Maintenance:**

- Firmware Upgrade via TFTP/FTP/Web
- Network Capture
- SNMP v2
- Syslog: Debug, Info, Error, Warning, Notice
- Call History Records via Syslog
- NTP Synchronization
- Centralized Management System
- Web GUI Configuration
- Data Backup/Restore
- PSTN Call Statistics
- SIP Trunk Call Statistics

### **Environmental:**

- Redundant Power
- Power Supply: 100-240VAC, 50-60 Hz
- Power Consumption:45W
- 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: 3.8kg
- Compliance: CE, FCC

***SunComm* Technology Co., Ltd**

7F, No. 53, Jian-Kang Rd., Zhong-he Dist., New Taipei City, Taiwan 23586

[www.SunComm.com.tw](http://www.SunComm.com.tw) [www.SunComm-4glte.com](http://www.SunComm-4glte.com)

Tel: 886-2-3234 1496 Fax: 886-2-3234 1393

E-mail: [gary@SunComm.com.tw](mailto:gary@SunComm.com.tw)

China: [www.SunComm.cn](http://www.SunComm.cn)

Tel: +86-136 8884 2805

