

SP1710T
SP1720T

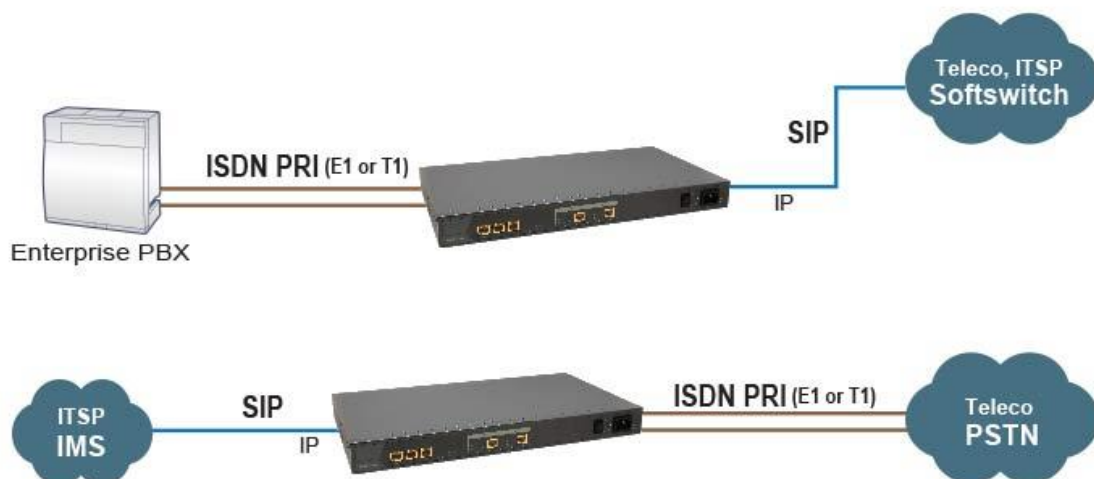
E1/T1 ISDN Trunking Gateway



- SIP to ISDN and ISDN to SIP gateway
- 24/30/48/60 digital voice channels
- ETSI, DMS, NET2, 5ESS compatible
- 1U x 19-inch, front access rack-mountable
- 3 x 100Base-TX interfaces
- WEB UI, remote upgrade

The brand new E1/T1 ISDN Trunking VoIP gateways are feature-rich and cost-effective products designated for telecom operators to provide telephony services with security-enhanced capabilities in the modern complex networks.

E1/T1 ISDN Trunking gateway is the ideal cost-effective solution for carrier and enterprise applications. Whether it is connected to PSTN or to PBX, the trunk Gateway provide a reliable and bandwidth-efficient solution that leverages the interoperability, scalability and enhanced services capability of industrial standard SIP protocol.



Model

- SP1710T: 1 WAN + 2 LAN + 1 ISDN E1/T1
- SP1720T: 1 WAN + 2 LAN + 2 ISDN E1/T1

Voice Feature

- G.711 a/μ, G.726(32K), G.729A, G.723.1
- Silence Suppression and Detection
- Comfort Noise Generation (CNG)
- Voice Activity Detection (VAD)
- Echo Cancellation (G.168)
- Adjustable jitter buffer
- Adjustable packet time (by Codec type)
- Programmable Gain Control
- Adjustable call progress tone volume

SIP Method Support

ACK, BYE, CANCEL, INFO, INVITE, MESSAGE, NOTIFY, OPTIONS, PING, PRACK, PUBLISH, REFER, REGISTER, SUBSCRIBE, UPDATE

SIP Call Features

- Peer to Peer Call
- Call Forward – unconditional, busy, no answer
- Do Not Disturb
- Speed Dialing
- Hot Line and Warm Line

SIP Call Management

- Support Outbound Proxy
- Support SIP Compact Form
- SIP Registration Failover
- Group Hunting
- P-Asserted-Identity per RFC3325
- Privacy Mechanism per RFC3323
- Session Timers (Update / Re-invite)
- DNS SRV Support
- Call Types: Voice / Modem / FAX
- User Programmable Dial Plan
- CDR by RADIUS client
- Manual Peer Table (for P2P calls)
- E.164 Numbering, ENUM support

SIP Account Management

- By channel registration
- By E1/T1 registration (share account)
- Invite with Challenge
- Support RFC3986 SIP URI format

Physical Interface

- WAN : 1 x100 BaseTx, auto cross-over, auto speed negotiation, RJ-45 connector
- LAN : 2 x 100 BaseTx switch, auto cross-over, auto speed negotiation, RJ-45 connector
- E1/T1 : RJ48C
- Factory default and Reset button

Telephony Specification

- In-Band DTMF, Out-of-Band DTMF Relay (RFC2833 or SIP INFO)
- Caller ID
- T.30 FAX passthrough, T.38 Real Time FAX Relay

LED Indicators

Power, Alarm, VoIP, Run, AIS, RAI, LINK, LOS, LBK, WAN, LAN

General Information

- Dimensions : 44.5 (W) x 25 (D) x H 4.5 (H) mm
- Weight : 3.8kg
- Power : AC 100~240 V 50/60Hz input
- Operating temperature : 0°C~ 45 °C
- Storage temperature : - 20°C~ 70 °C
- Operating Humidity : Up to 90% RH, non-condensing

NETWORK FEATURES AND MANAGEMENT

IP Network Specification

- WAN: Static IP, PPPoE, DHCP, PPTP
- Network Protocol Support:
 - IP, TCP, UDP, TFTP, FTP, RTP, RTCP, ARP, ICMP, NTP, DHCP, STUN Client, HTTP, HTTPS, DNS, DNS SRV, Telnet
- IPv4 , IPv6(optional)
- DDNS Support
- QoS Support:
 - WAN: DiffServ, IP Precedence

Network Security Specifications

- DIGEST Authentication
- MD5 Encryption
- DoS Protection
- Caller Filter by IP address

Management

- Web Based Configuration
- Telnet command line interface (CLI)
- IVR Configuration
- FTP / TFTP / HTTP Software Upgrade
- Configuration Backup and Restore
- SNMP V3/ V2c/ V1(optional)

Digital Interface

- Supported Switch Types: ETSI, DMS, NET2, 5ESS
- Line coding:
 - E1 ISDN PRI: HDB3
 - T1 ISDN PRI: B8ZS, AMI
- Line Impedance:
 - E1 120 Ohm, Balanced
 - 75 Ohm, UnBalanced (optional)
 - T1 100 Ohm
- Framing :
 - E1: ITU-T G.704
 - T1: SF, SLC96, ESF

E1 Loopback

- Digital loopback (DLBK)
- Remote loopback (RLBK)
- ST-BUS loopback (SLBK)
- Payload loopback (PLBK)
- Metallic loopback (MLBK)
- Per time slot Local loopback (LTSL)
- Per time slot remote (RTSL)

STANDARD COMPLIANCE

SIP, Voice and FAX Related Standard

- RFC1889, RFC2543, RFC2833, RFC2880, RFC2976, RFC3261, RFC3262, RFC3263, RFC3264, RFC5359, RFC3265, RFC3311, RFC3323, RFC3325, RFC3362, RFC3515, RFC3550, RFC3665, RFC3824, RFC3841, RFC3842, RFC3891, RFC3892, RFC3960, RFC3986, RFC4028

Network Related Standard

- RFC318, RFC791, RFC792, RFC793, RFC768, RFC826, RFC959, RFC1034, RFC1035, RFC1058, RFC1157, RFC1305, RFC1321, RFC1349, RFC1350, RFC1661, RFC1738, RFC2854, RFC2854, RFC2136, RFC2327, RFC2474, RFC2516, RFC2616, RFC2617, RFC2637, RFC2766, RFC2782, RFC2818, RFC2916, RFC3022, RFC3489

