

SP1710T SP1720T

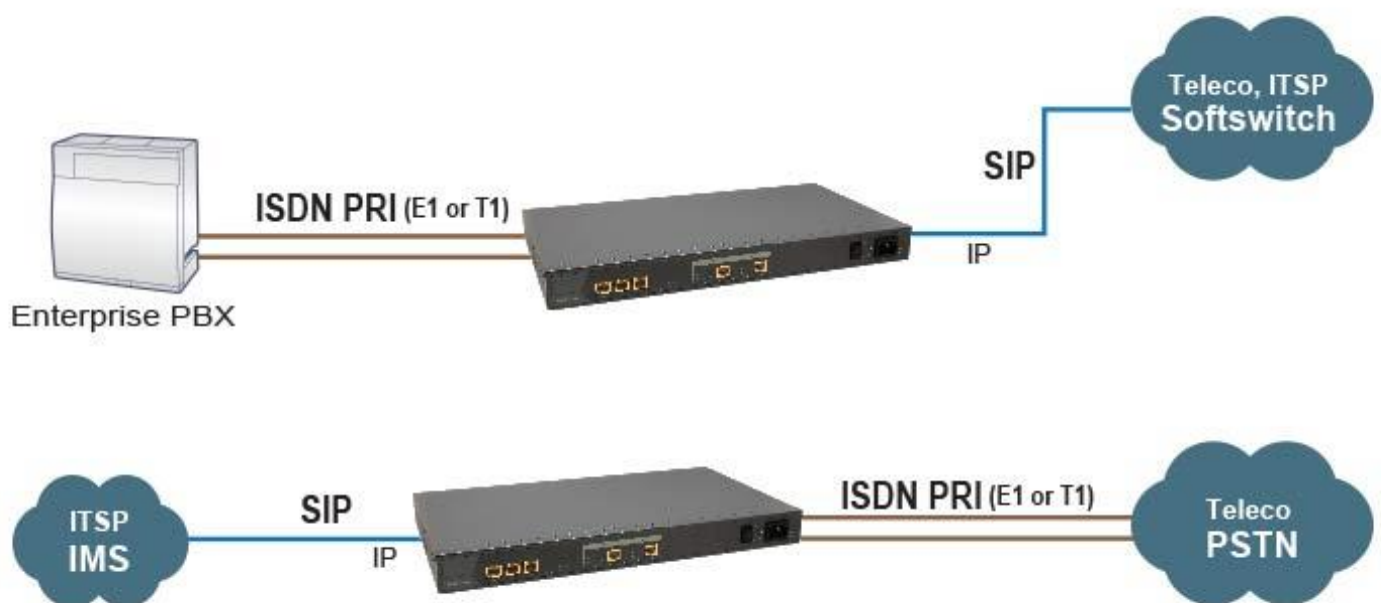
E1/T1 ISDN Trunking Gateway



- 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
- TLS and SRTP encryption (optional)

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 x 100BaseTx, auto cross-over, auto speed negotiation, RJ45
- LAN : 2 x 100BaseTx switch, auto cross-over, auto speed negotiation, RJ45
- 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
DC-DC Redundant Module 48V-12V (Optional)
- 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, G.732
 - T1 : SF, SLC96, ESF
- ISDN Role : Network or User Side
- Clock : Internal or External timing

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

