

# TI/EI Trunk Gateway

24/30/48/60 digital voice channels

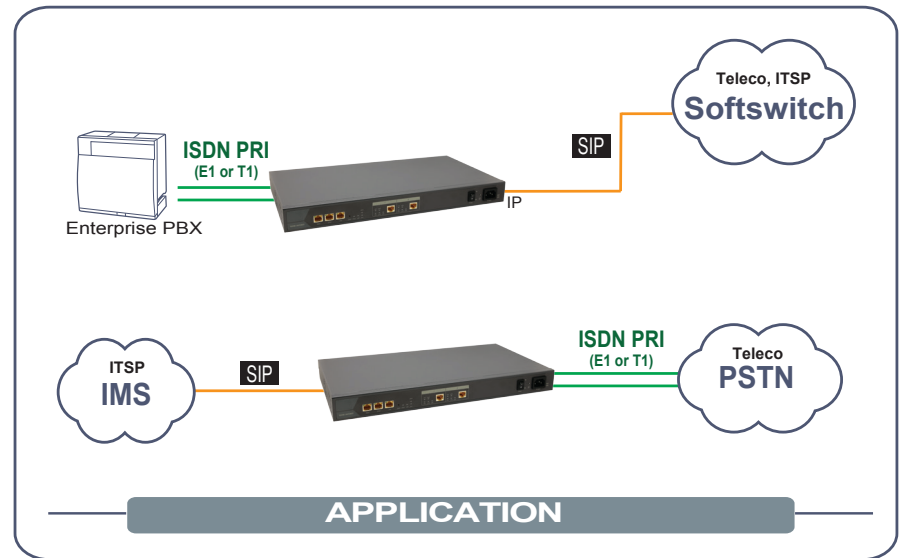


**SP1710T**

Single E1/T1 1 WAN 2 LAN

**SP1720T**

Dual E1/T1 1 WAN 2 LAN



## Voice Features

- G.711 a/μ, G.726(32K), G.729A, G.723.1
- DTMF Detection and Generation
- 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

## IP Network Specifications

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

## Device Management

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

## Digital Interface

- PRI Signaling:
  - Euro ISDN NET5, National ISDN-2 4ESS, 5ESS, DMS100
- 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

# TI/EI Trunk Gateway



## Ordering Information

Model	Description		
	WAN	LAN	ISDN E1/T1
SP1710T	1	2	1
SP1720T	1	2	2

## General Information

Dimensions: W 44.5cm x H 4.5cm x D 25cm

Weight: 3.8 kg

Power : AC 100~240V 50/60Hz input

Operating temperature: 0°C ~ 45°C

Storage temperature: -20°C ~ 70°C

Operation Humidity: Up to 90% RH, non-condensing



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\* Specifications, availability and terms of offers may change without notice.

## SIP Account Management

- By ISDN channel registration
- By E1/T1 registration (share account)
- Invite with Challenge
- IP Address or Domain Name registration
- Support RFC3986 SIP URI format

## 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
- 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 Support
- CDR by RADIUS client
- Manual Peer Table (for P2P calls)
- E.164 Numbering, ENUM support

## Telephony Specifications

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

## Diagnostics

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

## Security Specifications

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

## Physical

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

## LED Indicators

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

## Network Related Standard

- RFC318 ■ RFC1305 ■ RFC2516
- RFC791 ■ RFC1321 ■ RFC2616
- RFC792 ■ RFC1349 ■ RFC2617
- RFC793 ■ RFC1350 ■ RFC2637
- RFC768 ■ RFC1661 ■ RFC2766
- RFC826 ■ RFC1738 ■ RFC2782
- RFC959 ■ RFC2854 ■ RFC2818
- RFC1034 ■ RFC2131 ■ RFC2916
- RFC1035 ■ RFC2136 ■ RFC3022
- RFC1058 ■ RFC2327 ■ RFC3489
- RFC1157 ■ RFC2474