

# TSG800 SS7/Signaling Gateway - 1 to 16 T1/E1



The TelcoBridges *T*sig TSG800 is a carrier-grade SS7/SIGTRAN gateway.

Software upgradeable from 1 to 16 T1/E1, the TSG800 is the most cost-effective SS7/Signaling gateway solution for service providers that is currently available on the market.

## **Product Characteristics:**

- √ 1U SS7/SIGTRAN gateway
- ✓ 1 to 16 T1/E1
- ✓ SIGTRAN, SS7, Global Title Translation
- ✓ Software upgradeable by single T1/E1 increments
- ✓ Dual feed redundant power supplies (AC or DC)
- ✓ Tsig 1+1 solution option

# *T*sig™

# TSG800 Data Sheet

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Tsig TSG800 1U SS7/SIGTRAN gateway, front and rear view (dual AC power input shown)



## **Interfaces**

## **PSTN**

1 to 16 T1/E1 (software upgradeable) Configurable per port for T1 or E1 RJ48C connectors on rear of unit Port status LEDs

IΡ

6 Ethernet ports 100/1000Base-T RJ45 connectors on rear of unit Up to 16 different IP addresses Ethernet port bonding and 802.1q VLAN support

# **High Availability & Redundancy**

Power supply redundancy IP port redundancy Self-recovery software MTP2/SS7 link redundancy

Tsig 1+1 solution (optional)

The *T*sig 1+1 solution extends the high-availability and redundancy features of the TSG800

SS7/SIGTRAN gateway redundancy (active/standby)
Full capacity protection (TDM and IP)
Configuration database redundancy
Seamless software upgrade
Fault tolerant software
M3UA/MTP3/ISUP redundancy

Tsig 1+1 solution consists of:

1 active Tsig unit and 1 standby Tsig unit

1 or 2 Tsig 1+1 Patch Panel(s)

1+1 Patch Panels are passive (no power required)

# **Signaling**

Simultaneously supports any combination or all of the following signaling protocols:

#### SS7

Up to 64 MTP2 links (56, 64, n x 56/64 kbps) or 2 x HSL Multiple redundant MTP2 links
Up to 64 originating point codes and 256 linksets
Up to 256 destination point codes
MTP2 variants: ITU 88, ITU 92, ANSI 88, ANSI 92, NTT, TTC
MTP3 variants: ANSI, ANSI92, ITU, CHINA
SCCP routing and global title translation based on called party/calling party global title, SSN and TCAP opcode

#### **SIGTRAN**

M2PA, M2UA, M3UA (IPSP, ASP, SG), IUA SCTP (raw IP and UDP) SS7 termination and/or relay supported Up to 64 M2UA / M2PA links Up to 64 M3UA peer server processes Transparent SS7 link transport over IP

# OAMP+T (Web-Based Interface)

## Operations & Administration

Configuration, management and status GUI CLI and configuration file machine-to-machine interface Configuration change audit logging Access, user and privilege management SNMP V2, V3 GET, TRAPs (alarms) Extensive SNMP call statistics MIBs



Tsig 1+1 solution schematic



## Management

2 Ethernet ports 100/1000Base-T
1 USB Type B serial port
GUI-based system upgrade
GUI-based configuration copy, backup and restore
Storage for multiple software versions
Storage for multiple configuration files
Extensive system status display

## Provisioning

Non-service affecting configuration changes Offline configuration validation Multiple configuration files archive Machine-to-machine configuration interface

## Troubleshooting (TB Analytics)

TB Sigtrace – Protocol signaling capture into pcap files Media call recording (scriptable for calling and called numbers)

#### Maintenance

Replaceable fan filters

# **Dimensions & Weight**

1U, 19" rackmount 1.75" (44.5 mm) H x 16.9" (429 mm) W x 16" (406 mm) D 14 lbs (6.4 kg)

## 1+1 patch panel (8 T1/E1)

1U, 19" rack mount 1.75" (44.5 mm) H x 16.9" (429 mm) W x 5.25" (133 mm) D 3.4 lbs (1.6 kg)

## **Electrical Characteristics**

90 to 260 VAC, 47 to 63 Hz or -36 to -72 VDC Dual feed redundant power supplies (AC or DC) Maximum 70W power consumption

# **Regulatory Compliance**

## Safety

CAN.CSA C22.2 EN 60950-1:2005 EN 60950-1:2006

### **EMC**

FCC Part 15:2013, Subpart B, CE Mark (EN55022:2010, Class A, EN61000, ETSI EN 300 386)

#### Environmental

Operating temperature: 0 to +70 °C, 95% rel. hum. non-condensing Storage temperature: -10 to +85 °C, 95% rel. hum. non-condensing Designed to meet NEBS Level 3 RoHS compliant



Tsig TSG800 1+1 Patch Panel, (front view)

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