

Tsig™

# TSG3200-DS3

1 to 3 DS3 Signaling/SIGTRAN Gateway



## Ordering information

<b>Part #</b>	<b>Description</b>
TSG3200-DS31	1 x DS3
TSG3200-DS32	2 x DS3
TSG3200-DS33	3 x DS3

Each configuration is available in redundant AC or DC power.

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The TSG3200 is a high-capacity, 2U Signaling/SIGTRAN gateway and converter. The TSG3200-DS3 can have from 1 to 3 DS3 ports.

### **Product Characteristics:**

- ✓ 2U Signaling/SIGTRAN gateway & converter
- ✓ 1 to 3 DS3s
- ✓ Software upgradable by 1 DS3
- ✓ Redundant AC or DC power supplies
- ✓ 1+1 Support

## Interfaces

### PSTN

1 to 3 DS3 (simple field upgrade)  
BNC connectors on rear of unit  
DualRJ48C for BITS or T1/E1 for signalling

### IP Signalling

Dual 100/1000Base-T, used separately or in bonding  
RJ45 connectors on rear of unit

### Management

Single 100/1000Base-T for OAMP+T  
1 RJ45 serial port with RS-232C adapter  
Supports virtual IP

## Signaling

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

### 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 20 M3UA peer server processes

### SS7

Up to 64 MTP2 links (56, 64, n x 56/64 kbps, HSL)  
Multiple redundant MTP2 links  
Up to 64 MTP3 originating point codes and linksets  
ISUP variants: ITU 92, ITU 97, ANSI 88, ANSI 92, ANSI 95, Q.767, Telcordia 97, ETSIv2, ETSIv3, China, Singapore, UK, Brazil, SPIROU, Japan NTT  
SCCP routing and global title transition

### ISDN PRI

Q.931 ISDN PRI: NI-2, 4ESS, 5ESS, DMS-100, DMS-250, Euro ISDN, ETSI NET5 (France, Germany, UK, China, Hong Kong, Korea), NTT (Japan), Australia

### CAS

MFC R1 (E&M, loop start user / network side)  
MFC R2 (standard ITU, Brazil, Mexico)  
Customizable protocol script files

## TMG-CONTROL (Embedded gateway control and management software)

### Embedded Call Control

Call routing based on: trunk group, calling/called numbers digit manipulation, call cause code mapping  
Advance call routing: Priority, load sharing, route retry, Nature of Address (NOA) manipulation  
Programmable call routing: Access and manipulation of call parameters  
RADIUS AAA (supports multiple RADIUS servers)  
NPA-NXX routing (over 100,000 table entries)

### H.248 (MEGACO) Call Control

ITU-T H.248 versions 1 and 2  
UDP, SCTP, IPSec transport  
DTMF and fax tone detection  
Call progress, DTMF and COT tone generation  
Call quality and inactivity alerts  
H.248 control port redundancy (supports virtual IP)

### Session management and billing

CDR generation (RADIUS AAA and text file)  
Integrated lawful intercept (ETSI ES 201 671 v.2.1.1)

## OAMP+T (Web-based Interface)

### Operation & Administration

Status, configuration and management GUI  
Configuration change audit logging  
Access and user management  
SNMP V2, V3 GET, TRAPs and alarms

### Maintenance

Automated system upgrade  
System backup, restore and copy  
Extensive system status display  
Multiple software version archive

### Provisioning

Dynamic configuration changes  
Configuration validation  
Multiple configuration archive

### Troubleshooting (TB Analytics)

Call Trace  
Test Call  
TB Sigtrace – Live Signaling Capture  
System Snapshot

## Electrical characteristics (Power Input)

90 to 260 VAC, 47 to 63 Hz, -40 to -60 VDC  
Redundant power supply option with dual power inputs  
Maximum 132W power consumption

## Physical characteristics (Dimensions & Weight)

2U, 19" rack mount, 3.5" (88.9mm) H x 17.4" (442mm) W x 16" (406mm) D  
20lbs (9.1kg)

## Regulatory compliance (UL/CSA 60950, CSA C22.2)

### EMC

FCC Part 15:2009, Subpart B, CE Mark  
(EN55022:2006, Class A, EM60950, EN61000, ETS 300 386)

## Environmental

Operating temperature: 0 to +55 °C, 95% rel. hum. non-condensing  
Storage temperature: -10 to +75 °C, 95% rel. hum. non-condensing  
Designed to meet NEBS Level 3, RoHS compliant