

SS7 Signalling Gateway



With low cost, reliable, high bandwidth IP networks available for distribution of signalling, the SVI_SG provides the means to bridge the SS7 network from the traditional PSTN and Mobile TDM interconnects to IP.

The SVI_SG provides an SS7 signalling gateway environment, backhauling TDM SS7 information using international IETF standards of SIGTRAN



BENEFITS

The SVI-SG signalling gateway can be deployed as a single box supporting 2 x SS7 Signalling links to a full dual redundant pair supporting 1024 x signalling links.

Our comprehensive web based GUI provides full Operation, Administration and Maintenance including detailed debug and trace, logging, alarms, wizard based configuration, remote access and multi layer user administration.

The SIGTRAN protocol range allows for the backhaul of SS7 signalling over IP using the IETF standards, this allows the SVI-SG SS7 SIGTRAN Gateway to be compliant and ready to interconnect into any other SIGTRAN compliant environment.

The SVI_SG provides a fully unmanaged interconnect with onboard self managing software ensuring continuous uptime of the SS7 interconnect.

FEATURES

- Comprehensive web GUI/CLI interface
- SS7 backhaul support over SIGTRAN
- TDM SS7 interconnect into VoIP architecture
- Up to 1024 Signalling Links
- Lower cost per E1/T1
- SS7 Protocol Tracing
- SIGTRAN M2UA, M2PA, M3UA and SUA support
- Dual Redundant Architecture
- Network Management over SNMP
- Fully featured OA&M interface
- Remote configuration and control
- High speed links including ATM AAL5 support
- Low speed links

Physical Dimensions

Physical interfaces

- T1/ E1, J1 (Configurable)

Scaling

- 2 to 1024 Low Speed Links
- 2 to 16 High Speed Links

Form factor

- PCI

Chassis

- 1U Telco Standard

SS7 Dimensions

- Low Speed Signalling Links - 512
- High Speed Links (HSL) supporting Q.703 Annex A and ATM AAL5
- Originating Point Codes OPC - 32
- Destination Point Codes DPC - 1024
- Linksets - 128
- A, F link support - Yes

Scalability

- Simple license key upgrades
- SCTP Associations: 1,000
- M3UA/SUA Routing Keys 10,000

SIGTRAN

- SCTP RFC 2960
- M2UA RFC 3331
- M3UA RFC 3332
- SUA RFC 3868
- M2PA RFC 4165

Redundancy

- 1 + 1 Dual Plane worker/standby
- Automatic fail-over
- Single IP-VIP address

Network Security

- Integrated Firewall
- Username, password protected
- Secure external protocols
- Reports on unauthorised access

SS7 Supported Protocols

SCCP

- ITUT Q711-Q714
- JT-Q711-G714
- ETSI ETS 300 589
- ANSI T1.112

MTP Layer 2

- ITU-T Q.703
- ETSI EN 300-008-1
- ANSI T1.111
- JT.703
- Q.781 (Test Specification)

MTP Layer 3

- ITU-T Q.704-Q.707 (14 bit pointcode)
- ETSI EN 300 -008-1 (14 bit pointcode)
- ANSI T1.111(24 bit pointcode)
- JT.704-JT.707 (16 bit pointcode)
- Q.782 (Test Specification)

OA&M

- Remote / Onboard configuration
- Configuration through GUI
- Real-time configurable log-files
- Detailed protocol debug
- Wireshark/Ethernet compatible
- Onboard CDRs
- Statistics
- Real-time traps and alarms

SNMP

- SNMP Version 2

Hardware Options

Chassis options depending on customer requirements

- Standard entry level chassis 1U
- Hardware High Availability chassis -48 DC and 240 AC

Environmental

- EN55022
- EN55024
- CISPR 22,
- 47 CFR 15 (ANSI C63.4: 1992)

Safety

- BSEN 60950
- EN41003: 1998
- IEC CB Scheme 1950 Third Edition

Support



Squire Technologies provides a range of post-sales support packages to meet client requirements and budget. These range from 6 months web and email support provided free of charge on all purchased products to dedicated 24/7 telephone support.