squire technologies
Signalling Specialists to the Telecoms Industry

Leading edge SS7 and VoIP products with world class installation and support services to deliver carrier grade telecom products worldwide

SVI-SG

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 provides a full range of adaption layers (**M2UA, M2PA, M3UA and SUA**) allowing for different layers of the SS7 protocol to be presented into the IP environment depending on the infrastructure requirement.

The SVI-SG Signalling Gateway 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 512 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

- Low Speed links

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Make the switch

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Technical Specifications

Physical Dimensions

- **Physical Interfaces**
  E1/T1 J1 (configurable)
- **Scaling**
  2 to 128 SS7 Signalling Links
- **Form Factor**
  PCI
- **Chassis**
  1U - Telco Standard

SS7 Dimensions

- SS7 Signalling links - 512
- 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 / Ethereal 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.

Visit www.squire-technologies.com

For further product information on SS7 VoIP products for carriers, operators and service providers, plus case studies and customer testimonials.

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Partners & Resellers

Squire Technologies are actively building partnerships globally.

Contact us for information about resellers in your country, or find out how to establish a channel partnership.