

PSTN to VoIP Solution

SVI_MG SS7 Media Gateway 8000

Highlights

- Scales from 8E1 to 1000 E1/T1
- Support for STM-1/OC3/ DS3/T3
- SIP, H.323, SIP-I, SIP-T
- Support for wide range of industry standard VoIP Codecs, call progress tones, voice announcements
- SS7, ISDN, CAS, R2
- SIGTRAN
- Redundancy Support
- Optional integrated Wholesale Billing platform available
- Support for 3rd party billing platforms over RADIUS
- Intelligent Call Routing
- Network Management over SNMP
- Fully featured OA&M interface
- Remote configuration and control
- SIP Registration

SVI_MG_8000

The SVI_MG_8000 is the flagship product in the SVI_MG range providing for the largest deployments with full dual redundancy as standard.

This high end gateway allows carriers, ISPs and service providers to add VoIP network breakout to legacy SS7, ISDN, CAS and R2 networks. Providing for larger scale deployments and offering OC-3/ STM-1/DS3 support alongside standard E1/T1 interfaces.



Provides as standard a fully featured onboard and remote management interface, powerful routing engine and built in security.



Offers a range of industry standard interfaces i.e. RADIUS, SQL to allow easy integration into clients existing routing and billing network infrastructure.

The **SVI_MG** offers a feature rich gateway platform providing call progress tones, voice announcements. Bolt-on options include an integrated wholesale billing platform, SIP registration database, and a fully featured Call-Back service.

The **MG** has been deployed worldwide and combined with Squire Technologies first class installation and support services allows new VoIP services to be delivered quickly and cost effectively.

Product Range

The **MG** is offered in 3 models, **1000**, **2000** and **8000** to satisfy client's deployment requirements and budget. For further information on other products within the range please visit the website.

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SPECIFICATIONS

Physical Dimensions

Physical Interfaces

E1/T1
OC-3/STM-1/DS3/T3

Scaling

8E1 to 1000E1
1 to 9 x STM-1
2 to 27 T3

Upgrades

8E1, 16E1
1 x T3, 2 x T3, 3 x T3
1 x STM-1

Form Factor - cPCI

Chassis' - 2U, 5U, 8U & 11U cPCI

SS7 Dimensions

SS7 Signalling links - 128

Originating Point Codes OPC - 32

Destination Point Codes DPC - 1024

Linksets - 128

A, F link support - Yes

PSTN Supported Protocols

SS7 ANSI, ETSI, ITUT and over 50 country variants

ISDN ETSI, ITUT, ANSI and country/switch variants

CAS/R2 MF-R1, MFC-R2 with many country variants

VoIP Supported Protocols

SIP Version 2

SIP-T RFC 3372 Session Initiation Protocol for Telephones (SIP-T)

SIP-I ITU Q.1912 for ISUP/C7-to-SIP inter working

H.323 ITU Version 2 and 4
Fast and Slow Start
Gateway and Gatekeeper interconnect

SIGTRAN M3UA, M2UA, M2PA, IUA

VoIP Media

Voice Coders

G.711, G726/G727, G723.1, G.729 A/B, Linear PCM, GSM-FR, MS-GSM, OKI ADPCM, NetCoder, G.728, G.729E, EVRC, QCELP, AMR, GSM EFR, ILBC

Echo Cancellation

G.165 and G.168 with 32, 64 or 128 ms tail length

Fax

T.38 compliant group 3 fax relay, FAX over G711

DTMF Packet and PSTN side detection and generation

RFC 2833, SIP Info, H323 Event

Call Progress tone, VAD, CNG, modem detection

Routing and Call Management

Called/Calling Party Number
Originating Route
Time of Day / Week
Reattempt on alternative routes
Call blocking
Digit Manipulation
Protocol Manipulation
SQL Support for mySQL, PostgreSQL

Statistics

Call statistics (Ingress, egress)
ASR, PDD, ACD, QoS (native and SNMP)
CDR analysis

SNMP

SNMP Version 2

Billing

CDR CSV format for easy analysis
Automated FTP upload

RADIUS RFC 2139, 2138
Cisco VSA compliant

Integrated Wholesale Billing Platform

System Logging

Real time configurable logging levels
Detailed protocol debug
System and exception logs
User and Admin history

Hardware Options

Chassis options depending on customer requirements

Delivered in 2U, 5U, 8U and 11U cPCI
NEBS compliant chassis
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

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