

S&MGS-2 Series Signaling & Media Gateway System (16-64 T1/E1 / 1-3 DS3 / 1 OC3/STM-1)

Description

The S&MGS-2 Series Signaling & Media Gateway Systems are fully integrated, self-contained gateways for signaling and media interface or conversion. Applications using older CAS signaling or PRI/SS7 as well as newer SIGTRAN and SIP signaling are supported. Systems start at 16 T1/E1 ports and be ordred as 32, 48 or 64 T1/E1 ports (or up to 2048 channels). Configurations from 1 to 3 DS3 or 1 OC3/STM-1 are also available. Dual DC or AC power supplies as well as dual VoIP ethernet ports meet critical reliability requirements. Optional Standby 1+1 system options provide automatic switchover to a standby gateway during a primary gateway upgrade, maintenance function or outage.

SS7 and SIGTRAN protocols incorporate the MTP/ ISUP functions without separate stack components or signaling point code options. Signaling links and associations are equipped by license key activations only without hardware or platform changes. Port capacities may be increased in 16 T1/E1 or 1-DS3 increments with a field upgrade option. Teleprime ACD's signaling and media routing scripts address multiple applications for signaling conversion, processing and routing.

TELEPRIME ACD ORDERING INFORMATION

Part#	Description
S&MGSACR1600	16 x T1/E1
S&MGSACR3200	32 x T1/E1
S&MGSACR4800	48 x T1/E1
S&MGSACR6400	64 x T1/E1
S&MGSACRDS3-10	1 x DS-3
S&MGSACRDS3-20	2 x DS-3
S&MGSACRDS3-30	3 x DS-3
S&MGSACRSTM-1	1 x STM-1 / OC3

For DC power, user DC instead of AC in the part number. For 1+1 Hot Standby Option, add +1 to the part number. S&MGSU-16E = 16 T1/E1 upgrade option

S&MGSU-DS3 = DS-3 upgrade option

Features:

- Scalable capacity 16, 32, 48, 64 T1/E1 Ports,
 1, 2 or 3 DS-3 ports or 1-STM-1 /OC3 port
- Full featured signaling stacks & functions for CAS, PRI, SS7, SIGTRAN and SIP (via license keys)
- Supports multiple signaling types, stacks, routes (OPC/DPCs), SIP terminations.
 Programmable TeleprimeACD Routing Script
- Signaling conversion, interface and gateway in one single 2U chassis
- Separate Ethernet managment port can be set to DHCP client or DHCP server
- Console command line serial port or SSH over Ethernet for lower level configuration functions
- Embedded web server for menu based provisioning, alarm monitoring and control
- Advanced diagnostics and logging for network, signaling and call tracing functions
- High speed CPU non-blocking operation with ultra-low power consumption
- Redundant AC or DC power supply version
- Optional 1+1 Standby S&MGS Gateway for automatic switchover supporting upgrade, maintenance or service outage situations (includes T1/E1 network patchpanel for network switching between gateways



<u>S&MGS Series Redundant Power Signaling & Media Gateway</u>

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Specifications:

Physical Ports:

Signaling Protocols:

SIGTRAN M2PA, M1UA, M3UA, IUA SS7 termination and/or relay supported

CAS DTMF, MFC R2 (standard ITU and from TeleprimeACD R2 database)

Capacity and voice processing:

VoIP channels128 to 256

DTMF relay RFC 2833, SIP INFO Method

In-bandVoice processingDynamic and programmable jitter buffer (20 to 200 ms)

Voice activity detection (VAD)

Comfort noise generation (CNG)

** - NEBS Level 3 compliant, RoHS compliant

CALL-CONTROL:

Session management and billing SIP peer availability polling, RTP inactivity monitoring, CDR generation (RADIUS and text file)

Operation & Maintenance Provisioning:

for configuration. Dynamic activation

Troubleshooting Per-call tracing (history and/or live) Signaling capture tools SSH command-line interface

Other characteristics:

Physical characteristics Dimensions—1U, 1.719H x 17.4W x 16D in. (43.66H x 442W x 406D mm) Weight—20 lbs (9.1 kg)

Regulatory complianceUL/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 temp 0 to +55 ° C, 95% relative humidity, non-condensing **Storage temp** -10 to +75 °C,

95% relative humidity, non-condensing



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