



A Tyco International Company



## Virtual Receiver **SG-SYSTEM III**

### Features That Make a Difference:

- Patented ANI and DNIS reception
- Patented Caller ID (Bellcore or ETSI only)
- Patented Automatic Handshake Selection (AHS)
- Advanced two-way audio integration
- High-security network monitoring
- Fully “hot-swappable” modules
- Eliminates fixed-line hunt groups
- Integrated scheduled receiver line card testing
- Blocks unwanted communications
- Requires less physical space
- User-friendly configuration tools
- Upgradeable “flash” memory
- Automation output over TCP/IP or RS-232
- ULC, CSFM, NIST, CE, CNC, IDA, A-tick, and C-tick approved

### Disaster Recovery Strategy

The use of a PRI/T1 circuit greatly improves disaster recovery capabilities. In the event of system failure, a primary central monitoring station can have communication to its System III receivers routed to an alternate disaster recovery facility using available phone service provider options. This prevents any down time and ensures that activities can continue as normal.

### Depend on the Sur-Gard System III

Each SG-System III delivers complete auto-switching redundancy to provide backup. For example, if the primary CPM stops working, the secondary unit automatically takes over all duties until the problem is resolved. The System III has a built in power supply backup. Both the primary and secondary Power Supplies perform load sharing so in the event of a failure of either power supply, the alternate will automatically take over without any user intervention.

All components are ‘hot swappable’: they can be quickly removed and/or replaced while the system is live.

The robust CPM with built-in diagnostic software proactively identifies any issues through

the easy-to-use Windows™ - based SG-Systems Console software. Continually monitoring the automation software ensures automatic backup to a redundant port. For example, all automation links are continually being supervised by a heartbeat signal. If the heartbeat signal is not acknowledged, the SG-System III will display a notification indicating there has been an error and will switch to its backup automation connection. The CPM polls each line card to get consistent up-to-date information. Split shelf reporting allows for each CPM3 to monitor the linecards that are physically installed on that rack and output the signals independently to automation and printer(s). In the event of a failure of one of the CPM3's the other CPM3 will automatically start monitoring all linecards and output all signals.\* The AHS (Automatic Handshake Table) stores up to 250,000 entries and can be expanded to 500,000 entries with the optional License. This allows the System III to memorize more phone numbers increasing efficiency for processing all alarm signals.\*

Programming changes can be easily made using the menu-driven 1/4 VGA display or remotely over a network Ethernet connection using Sur-Gard Systems Console Software. Flash technology ensures that any required software upgrades can be

conveniently made without additional hardware or firmware changes. No system downtime required.

\* SG-CPM3ROHS with version 2.0 and higher required

## Configure The Sur-Gard System III The Way You Need It

The two 19" rugged, rack-mountable virtual receivers house up to 24 line cards. The 'mix and match' feature – IP and PSTN line cards – deliver 'plug and play' flexibility. Each line card delivers the configuration potential needed: up to 64 different profiles, each with up to eight different handshakes, on each line card. Digital Signal Processing (DSP) increases the speed, accuracy and flexibility of each line card to allow the processing of a greater number of communication formats.

- The PSTN line cards – SG-DRL3, and SG-DRL3-2L – use a number of patented technologies to help decrease online time, including ANI and DNIS reception, Automatic Handshake Selection (AHS) technology and advanced two-way audio integration.
- The IP line cards – SG-DRL3-IP – support up to 512 supervised and up to 1536 total DSC IP Communicators (Ethernet or GSM).

Output ports connect to the peripherals you need, such as printers and/or computers – and to the automation software. With built-in redundancy for power and auto-switching between the linked systems, performance is assured.

### Ordering Information:

Part No.	Description
SG-PSC3 .....	Power Supply Controller
SG-DC/DC3 .....	DC Voltage converter
SG-PSU3 .....	Power Supply Unit
SG-MLRF3 .....	System III Metal Rack
SG-SIII-INT .....	Interconnect Kit
SG-CPM3 .....	Central Processing Module for SG-System III
SG-CPM3-250KAHS....	License key for expansion of AHS table by 250,000
SG-DRL3-IP .....	High Density IP Line Card for SG-System III
SG-DRL3 .....	Single PSTN Phone Line Connection
SG-DRL3-2L .....	Dual PSTN Phone Line Connection
SG-BP3X .....	Centronics to RJ11 EXP
SG-SIIIBASE .....	System III Basic Pack
SG-SIIIREDUN (requires SYSIIEXP).....	System III Redundancy Pack
SG-SIIIEXP .....	System III Expansion Pack

## Specifications

DIMENSIONS	
SG-MLRF3	19" x 3.5" x 12.24" (38 cm x 9 cm x 31.1 cm) 4 U NOTE: Uses standard 19" rack
WEIGHT	
SG-MLRF3	8.2 lbs (3.7 kg)
Input voltage	110/220 VAC, 50/60 Hz, 2.5 A (max)
Power consumption	25 W
Battery backup	External UPS (not supplied)
Operating Environment	32 – 122 °F (0 – 50 °C) 90%, non-condensing
Built-in connectors	<ul style="list-style-type: none"> <li>- Parallel printer port</li> <li>- Serial RS-232 port COM 1: connects to Automation Software (used by monitoring station)</li> <li>- Serial RS-232 port COM 2: connects to external serial printer or PC to view/print events</li> <li>- Ethernet: RJ45 modular jack for 10/100Base T automation output</li> </ul>
Compatible communication formats <i>(NOTE: For a complete list, contact Sur-Gard)</i>	Up to 120, including: 10-40 baud, 3/1, 4/2 checksum, 3/1, 4/1, 4/1 ext. 4/1 or 3/2, 4/2, Express, Acron, Adcor, Ademco Express, Ademco High Speed, Ademco Super Fast, BPSK, Contact ID, FBI Super Fast, ITI, Modem IIIa2, Modem II, IIA, IIB, IIE, SESCO Super Speed, SIA 20, SIA 8, SIA I, SIA II, SIA III, SK FSK 1, SK FSK 2, Sur-Gard 4/2, 4/3
Line card capacity	Up to 24 line cards (IP or PSTN) in any combination
Line card - PSTN (SG-DRL3-2L)	<ul style="list-style-type: none"> <li>- Up to 2 lines/card</li> <li>- Up to 64 different profiles/card with up to eight different handshakes/profile</li> <li>- Software upgrades via 'flash' download</li> <li>- 256-event memory buffer/card</li> </ul>
Line card - PSTN (SG-DRL3)	<ul style="list-style-type: none"> <li>- Up to 64 different profiles/card with up to eight different handshakes/profile</li> <li>- Software upgrades via 'flash' download</li> <li>- 256-event memory buffer/card</li> </ul>
Line card - IP (SG-DRL3-IP)	<ul style="list-style-type: none"> <li>- 256-event memory buffer/card</li> <li>- 128-bit AES encryption</li> <li>- Anti-hack design</li> <li>- Compatibility with all DSC IP Alarm Communicators (GPRS or Ethernet)</li> <li>- UL AA High-Line Security and ULC Level 3/4/5 listed</li> <li>- FIPS/NIST listed</li> </ul>
Visual display	Menu-driven 1/4 VGA display
Incoming line identification	ANI (to identify the calling control panel) and DNIS (to identify and store the profile (receiver type) of the incoming calls) reception or standard Bellcore Caller ID
Certification	FCC Part 15 Radiated/Conducted emissions ACTA TIA-968B (FCC Part 68) Telecom UL/ULC Central Station Fire (UL 864/ULC-S559) UL/ULC Central Station Burglary Alarm Units (UL 1610/ULC-S304) CE Compliant (ETSI ES203021-1, -2, -3), EN60950-1 Safety, EN50130-4 EMI, EN61000-6-3 Class B Radiated/Conducted Emissions) CSFM (California State Fire Marshall) 7300-1273: 125