SUR-GARD™ SYSTEM III

Virtual Receiver

SUR-GARD™

DSC®

tyco / Fire & Security

THE SUR-GARD SYSTEM III VIRTUAL RECEIVER

▶ **The industry's fastest response time with patented Automatic Handshake Selection™ (AHS).**

▶ **Saves on phone costs and optimizes line card availability.**

▶ **Two 19-inch rack-mount cages are configured for auto-switching redundancy and provide double-safe back-up, zero downtime and UL/ULC approval.**

▶ **Secure, supervised Internet/network monitoring with same receiver.**

▶ **Mix-and-match 24 SG-DRL3 and SG-DRL3-IP line cards.***

* SG-DRL3-IP network line cards provide 128-bit AES encryption, anti-hack design, compatibility with DSC T-Link TL250 Internet Alarm Communicators, and are UL AA High-Line Security and ULC Level 3/4/5 listed, and FIPS/NIST listed.

The Sur-Gard System III is a robust, 24-line virtual receiver* that can be expanded to accommodate 24 mix-and-match line cards (SG-DRL3 or SG-DRL3-IP). It resides in two 19-inch rack-mount cages and is configured for auto-switching redundancy. To aid in the identification of incoming calls is patented ANI and DNIS reception. ANI reception enables System III to identify the calling control panel; DNIS reception uses a numeric identifier programmed into System III line cards to identify and remember the profile (receiver type) of incoming calls. Once this information is known, patented Automatic Handshake Selection (AHS) technology instantaneously remembers the required handshake of the incoming control panel, eliminating the need for a handshake roll to be executed. This significantly decreases the online time of central monitoring stations, helping to save money on staffing and phone bills, and ensures that line cards are available to attend to incoming calls. And because more line cards are available, not as many are needed to manage caller demand.

* System III is not exclusively a virtual receiver; it can be used with PSTN phone lines.

PRODUCT FEATURES:

▶ **Maximizes use of all line cards**
▶ **Patented ANI and DNIS reception**
▶ **Patented Caller ID**
▶ **Patented Automatic Handshake Selection (AHS)**
▶ **Reduces phone charges**
▶ **Advanced two-way audio integration**
▶ **High-security network monitoring**
▶ **Fully "hot-swappable" modules**
▶ **Fewer line cards required**
▶ **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**
▶ **UL AA High-Line Security, ULC Level 3/4/5 listed, FM, CE, AUSTEL, CNC 55-3511**

DESIGNED FOR EASY AND ECONOMICAL EXPANSION

The 24-line System III virtual receiver is separated between two 19-inch rack-mount cabinets. This allows for automatic switching redundancy of all internal components in the event of failure—if the primary CPM stops working, the secondary unit would instantaneously take over all duties until the problem is solved. The benefits of system integration include increased account volume and signal processing capabilities.

System III can be configured to run one or a maximum of 24 line cards. A combination of phone line cards and network line cards can be used to create one integrated monitoring solution. A unique feature of the System III is an automation output over TCP/IP using a RS-232 serial output as a back-up.

IMPROVED HANDLING OF INCOMING AND INTERNAL DATA

System III features Digital Signal Processing (DSP) that increases the speed, accuracy and flexibility of each line card to allow the processing of a greater number of reporting formats.

SELF DIAGNOSTICS DETECT AUTOMATION AND COMPONENT PROBLEMS INSTANTLY

The System III Central Processing Module (CPM3) provides continual supervision of automation software to ensure automatic backup to a redundant port. For example, if the automation system goes off-line the CPM3 switches from the primary Ethernet port to a secondary, or to one of two serial ports, before going into manual mode. Additionally, the CPM3 polls each line card to get consistent up-to-date information.

SECURE NETWORK ALARM MONITORING

SG-DRL3-IP line cards feature leading security measures such as 128-bit AES encryption and an anti-hack design that isolates internal communications from external data transmissions. The line cards are FIPS/NIST and UL AA High-Line Security and ULC Level 3/4/5 listed.

TELCO AND CE-IP CONNECTION

SG-BP3X provides a PSTN phone line connection to the System III via a 25-pin connector. The SG-BP3X-IP must be used for CE-approved applications when using IP communications.

HOT-SWAPPABLE COMPONENTS

Technicians can attend to any failure by replacing inactive components without any interruptions in service or having to power down the system.

INTEGRATED LINE TESTING

System III offers integrated end-to-end testing of up to 1,024 telephone numbers. Line tests can be initiated on demand, or automatically using daily or weekly schedules. A unique test signal using SIA or Contact ID formats is programmed for each phone number and results are individually logged via Sur-Gard Console Software. System III can send test signals to other compatible receivers in a central monitoring station.

SUR-GARD™ SYSTEM III

DISASTER RECOVERY STRATEGY

The use of an E1 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 rerouted via the E1 circuit and directed to an alternate disaster recovery facility. This prevents any down time and ensures that activities can continue as normal.

USER-FRIENDLY PROGRAMMING; FAST AND EASY UPGRADES

System III can be programmed locally by referencing the unit's menu-driven 1/4 VGA display or remotely over a network Ethernet connection using Sur-Gard Console Software. The software can also be used to upgrade the unit's "flash" memory with new operating software without disrupting the activity of other components, handling hardware or pulling chips.

SUR-GARD CONSOLE SOFTWARE

Sur-Gard Console Software is an easy-to-use Windows™-based utility used to configure the System III virtual receiver. The software connects via the receiver's Ethernet port from any network computer providing a number of remote diagnostic tools such as communications debugging and real-time status of all subsystems. Other features include a "flash" memory upgrade utility, date and time synchronization, edit and archive configuration options, as well as a virtual event log.

Specifications

- Virtual receiver platform
- Each SG-DRL3-IP line card supports up to 512 supervised and up to 1,024 total T-Link TL250 accounts
- Supports up to 24 line cards (IP or PSTN mix-and-match)
- IP output to automation
- Multi-format receiver
- Patented Caller ID capability
- Automatic Handshake Selection (AHS)
- Patented virtual configurations
- Advanced two-way audio integration
- Supports ANI and DNIS C.L.A.S.S. signals
- CPM3 central processing module
- Universal power supply
- Non-volatile RAM on each SG-DRL3 line card for programming and event buffer
- "Flash" download software upgrades for SG-DRL3 line cards and the CPM3
- DSP technology
- Up to 64 different profiles used by each line card
- Up to eight different handshakes per profile
- Easy-to-read, menu-driven 1/4 VGA display
- Hot-switching and swappable components for redundancy and central station certification
- 256-event memory buffer on each individual line card
- Real-time clock
- One parallel printer port, two serial RS-232 ports and 10/100BaseT automation output
- Continuous verification of computer/receiver links
- Rack mount in standard 19-inch rack
- Compatible with*: 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, BFSK, Contact ID, FBI Super Fast, ITI, Modem IIIa2, Modem II, IIA, IIB, IIE, Sescoa Super Speed, SIA 20, SIA 8, SIA I, SIA II, SIA III, SK FSK 1, SK FSK 2, Sur-Gard 4/2, 4/3

* A complete list of supported communication formats available upon request.

Ordering Information:

SG-SIIIBASE (requires SG-DRL3s) . . . . System III Basic Pack
SG-SIIIEXP . . . . System III Expansion Pack
SG-SIIIREDUN (requires SYSTIIIEXP) . . . . System III Redundancy Pack
SG-DRL3 . . . . Virtual Line Card
SG-DRL3-IP . . . . Network Line Card
SG-BP3X . . . . Centronics to RJ11 EXP
SG-BP3X-IP . . . . RJ45 Isolation Breakout

Approval Listings: ⓊLC ⓊL 〈triangle mark〉 CE FM APPROVED | Sur-Gard System III | CNC 55--3511

UL and ULC Listed for Fire and Burglary Alarm Central Station (Receiving Unit) Applications
CE Compliant with EMC, R&TTE and Low Voltage Directives
Australian Communications Authority (ACA) compliant (A-Tick mark)

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