



From Tyco Security Products



system five



SG-System 5 v1.0 Installation Guide

For the full Installation Manual visit www.dsc.com

NOTE: This manual contains information regarding product use and function, in addition to manufacturer liability and restrictions pertaining to it. The entire manual should be read carefully.

1.0 SG-System 5 Overview

The SG-System 5 is a multi-platform receiver intended for remote monitoring of commercial fire and burglary systems. The SG-System 5 can monitor up to 24 IP communication line cards (SG-DRL5-IP) to receive and process alarm data in up to 64 pre-programmed profiles per line card. The SG-System 5's real time clock date stamps all received alarm signals which are then transmitted to a central station computer via TCP/IP or RS-232 port; transmitted directly to a printer using the serial printer port and/or TCP/IP; and viewed on the LCD of the front panel while the receiver is in the manual state. Options can be programmed using a PC with SG-Systems Console or locally using the touchscreen LCD. Each shelf can house up to 24 SG-DRL5-IP line cards.

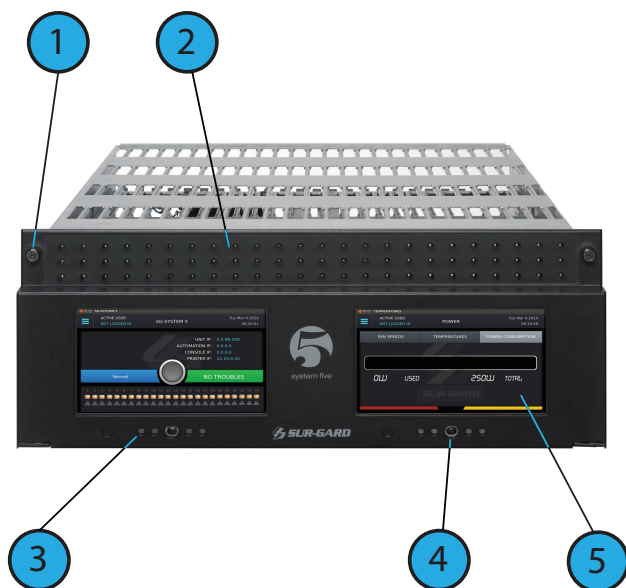
This guide shall be used in conjunction with the SG-System 5 v1.0 Operating Manual, which can be accessed from the dsc.com web site.

CPM Redundancy

The SG-System 5 can be used in a redundant configuration using two SG-CPM5's, where the primary SG-CPM5 backs up to the secondary SG-CPM5 and vice versa. Under normal conditions, the primary SG-CPM5 is active and outputs all signals to the printer and automation, while the secondary SG-CPM5 is in standby. If the primary fails, the secondary SG-CPM5 automatically switches to active (within 30 seconds) and starts outputting signals to the printer and automation. During the switchover from standby to active, signal reception is not affected because the SG-DRL5-IP is still able to receive signals. The output to printer and automation is delayed by the length of time required to switch from standby to active.

Diagrams

FIGURE 1-1: SG-System 5 Front with Door Closed



1. Thumb screws to hold faceplate closed
2. Line card status indicators (top LED is watchdog, middle LED is status and bottom LED is network)
3. SG-CPM5 Status LEDs (from left to right: Console, Trouble, Network, Watchdog, Automation)
4. Quick HOME button
5. 7" resistive touch LCD screen

FIGURE 1-2: SG-System 5 FRONT with Door Open

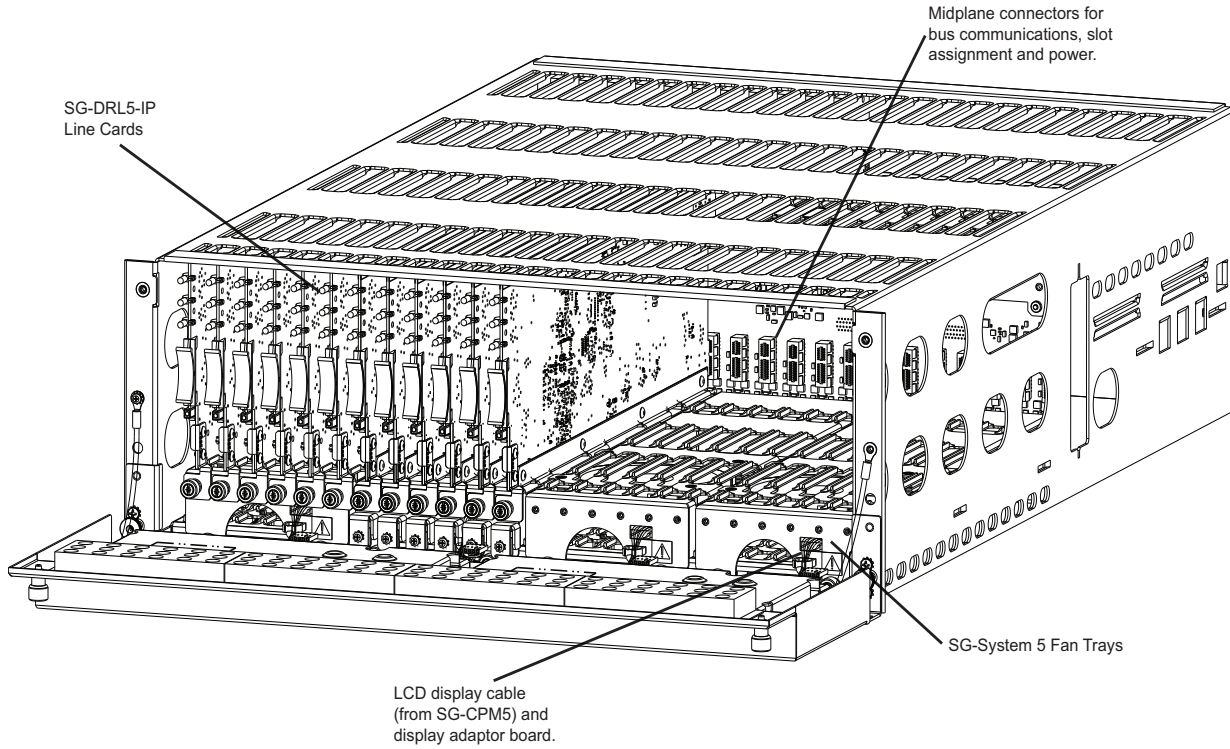
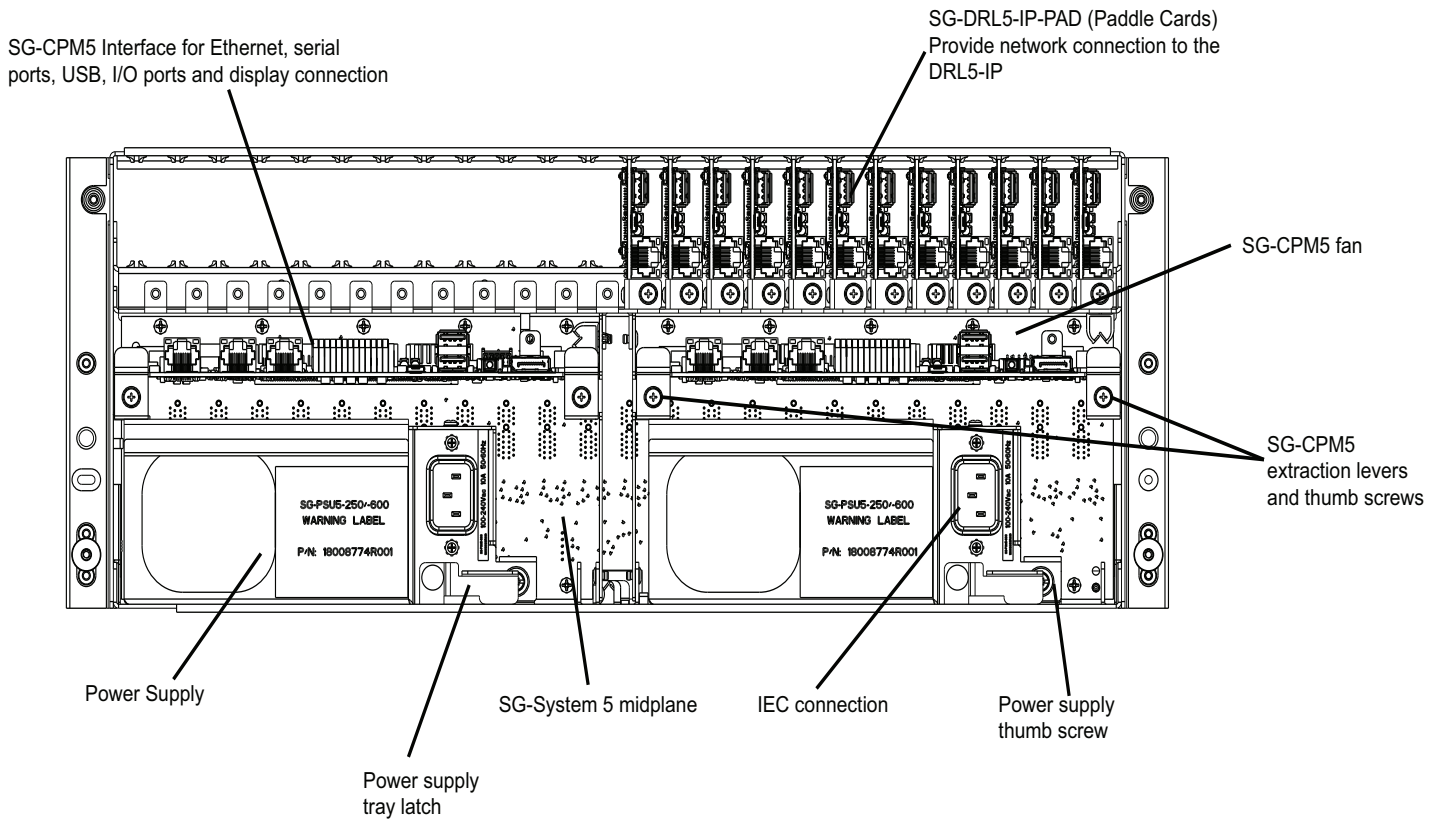


FIGURE 1-3: SG-System 5 Back



Description

The basic configuration consists of one 19" rack mounted chassis comprising the following:

- SG-MLRF5 - Metal rack of the SG-System 5 with SG-MP5
- SG-PSU5-600 - 600W power supply unit provides power to all system modules
- SG-CPM5 - Central processing module controls all communication to and from receiver modules and printers
- SG-UIB5 - Touch screen user interface
- SG-DRL5-IP - Internet protocol line card
- SG-DRL5-IP PAD - Paddle card for SG-DRL5-IP provides network connection
- SG-MLRF5-RM – Rack mount rails
- SG-S5LFANTR – Line card fan tray
- SG-S5CFANTR – SG-CPM5 fan tray
- SG-S5SERCAB – Y cable for serial connection to the SG-CPM5 for automation/printer
- SG_SYS5MEM4 – Removable EMMC memory
- SG_SYS5DDR31 – DDR3 RAM
- SG-CPM5BATT - SG-CPM5 real time clock battery

2.0 Specifications

Dimensions

Depth:	27.5" (69.85 cm)
Width:	19" (48.26 cm)
Height:	7" (17.78 cm)
Required Rack Space:	4U

SG-System 5 UL Electrical:

Input Voltage:	100-240 VAC, 50/60Hz.
Input Current:	8A max (RMS) @ 100VAC
Backup Power Supply:	External UPS (not supplied)

In a two SG-CPM5 configuration, a redundant SG-PSU5 can be inserted in the second slot. In the event of a SG-PSU5 failure, the redundant SG-PSU5 automatically assumes operation. These modules are hot swappable (can be removed/replaced while the system is in operation) if a working, redundant SG-PSU5 is installed.

Environmental:

Temperature:	0-49°C (32 - 120°F)
Humidity:	93%RH, Non-Condensing

Accounts:

ULC Line Security Levels: A1-A4 (active channels) or P1-P3 (passive channels)

Printers (UL/ULC Listed Installations):

Serial:	Seiko DPU-414
DACT Compatible communication formats (ULC Passive channels):	SIA, CID
Encryption:	AES 128 bit

3.0 Approvals

Industry Approvals

- UL 1610 Central Station Burglar Alarm Units
- UL 864 Standard for Control Units and Accessories for Fire Alarm Systems
- CAN/ULC-S304-06 Signal Receiving Centre and Premises Burglar Alarm Control Units
- CAN/ULC-S559-04 Equipment for Fire Signal Receiving Centres and Systems
- EN60950-1:2006 Standard for Information Technology Equipment.
- AS/NZS 60950.1:2003 Information Technology Equipment - Safety
- CISPR22 Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurements
- EN50130-4 Immunity requirements for components of fire, intruder and social alarm systems
- NIST validation certificate number 2913 for AES 128 bit encryption.

For UL listed installations, the equipment shall be installed in accordance with the requirements of NFPA72, NFPA70, UL827 and the authority having jurisdiction.

SG-System 5 with SG-DRL5-IP Line Card is ULC listed for active communication channel security level A1 - A4 when used in conjunction with T-Link TL250, T-Link TL300, TL260, TL260GS, GS2060, 3G2060(R), TL2603G(R), 3G3070(RF)(CF), TL2803G(R), 3G2080(R) and TL280(R) Internet/Intranet and/or GSM-GPRS alarm communicators. For this type of application the supervision and encryption features have to be enabled. For ULC Installations the equipment shall be installed in accordance with the requirements of ULC-S561 and ULC-S301 Standards and the authority having jurisdiction. The receiver can be used also in conjunction with ULC listed passive communication systems based on the configuration of the systems at the protected premises.

This product has been approved by the California State Fire Marshal (CSFM) pursuant to section 13144.1 of the California Health and Safety Code. See CSFM Listing No. 7300-1273:0157 for allowable values and/or conditions for use concerning material presented in this document. The approval is subject to reexamination, revision and possible cancellation.

UL864 Programming Requirements

NOTE: Users, Installers, Authorities having Jurisdiction and other involved parties; this product incorporates field programmable software. In order for the product to comply with the requirements in the Standard for Control Units and Accessories for Fire Alarms Systems, UL 864, certain programming features or options must be limited to specific values or not used at all as indicated below.

SG-CPM5 - UL864 Programming Requirements				
Opt #	Program Option	Permitted in UL864? (Y/N)	Possible Settings	Settings Permitted (UL 864)
202	Buzzer	N	Enabled/Disabled	Enabled
411	Heartbeat Timer	Y	00-FF	Not Allowed 00
601	CPM5 1 Fan Trouble	N	Enabled/Disabled	Enabled
602	CPM5 2 Fan Trouble	N	Enabled/Disabled	Enabled
603	PSU 1 Trouble	N	Enabled/Disabled	Enabled
604	PSU 2 Trouble	N	Enabled/Disabled	Enabled
609	UPS AC 1 Trouble	N	Enabled/Disabled	Enabled
610	UPS AC 2 Trouble	N	Enabled/Disabled	Enabled
611	UPS Battery 1 Trouble	N	Enabled/Disabled	Enabled
612	UPS Battery 2 Trouble	N	Enabled/Disabled	Enabled
615	SG-Serial Automation Sec 1 Trouble	N	Enabled/Disabled	Enabled
617	Serial CPM 1 Printer 1 Trouble	N	Enabled/Disabled	Enabled
618	Serial CPM 2 Printer 1 Trouble	N	Enabled/Disabled	Enabled
619	Serial CPM 1 Printer 2 Trouble	N	Enabled/Disabled	Enabled
620	Serial CPM 2 Printer 2 Trouble	N	Enabled/Disabled	Enabled
621	SG-TCP Automation Pri - Trouble	N	Enabled/Disabled	Enabled
631	SG-TCP Automation Sec - 1 Trouble	N	Enabled/Disabled	Enabled
665	TCP Printer Pri - 1 Trouble	N	Enabled/Disabled	Enabled
675	TCP Printer Sec - 1 Trouble	N	Enabled/Disabled	Enabled

SG-DRL5-IP				
Opt #	Program Option	Permitted in UL 864? (Y/N)	Possible Settings	Settings Permitted (UL 864)
221	Transmitter Absent Debounce Time	N	5-65535	200
222	Transmitter Restoral Debounce Time	N	5-65535	200
301	Transmitter Unencrypted Trouble	N	Enabled/Disabled	Enabled
302	Unknown Account Trouble	N	Enabled/Disabled	Enabled
303	Supervised Accounts Exceeded Trouble	N	Enabled/Disabled	Enabled

Printers

Serial Printer

For UL and ULC Listed applications, the following UL/ULC Listed printer can be used with the SG-System 5:

- Seiko DPU-414

TCP/IP Printer

For UL Listed applications, the UL Listed SG-Systems Console Software can be used with the SG-System 5.

NOTE: For ULC Listed applications, the Console Printer application is considered supplemental and is only allowed to be used in conjunction with a compatible ULC Listed printer.

SG-Systems Console Software System Requirements

Compatible operating systems:

- Microsoft Windows 2008 Server (32 and 64 bit)
- Microsoft Windows 7 (32 and 64 bit)
- Microsoft Windows 8 (32 and 64 bit)
- Microsoft Windows 8.1 (32 and 64 bit)

NOTE: Requires .NET Framework 3.51.

Hardware requirements:

- Intel Atom CPM @ 1.6GHz and 1 GB of RAM

NOTE: Do NOT use printer cables that have only 1 common ground wire.

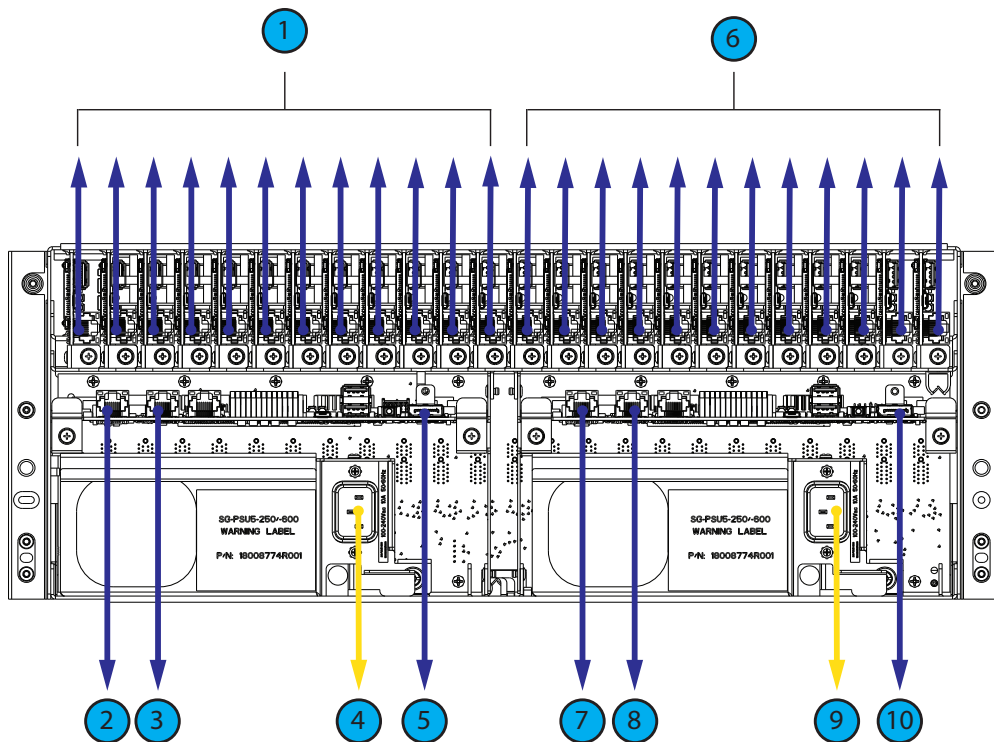
UL Manual Mode

For UL Manual mode, each event will activate the internal buzzer to be acknowledged manually. Each event will also be sent automatically to the connected printer.

NOTE: A user must be logged in before acknowledging signals. A logged in user will remain logged in until a new user enters a valid user name and password or if the SG-CPM5 resets/reboots.

SG-System 5 Power Limited Circuit Separation

FIGURE 1-4: SG-System 5 Power Limited Circuit Separation from Non-Power Limited Circuit Diagram



- | | |
|---|---|
| 1. Secondary Line Card Ethernet Connections | 6. Primary Line Card Ethernet Connections |
| 2. Secondary SG-CPM5 Ethernet Connection | 7. Primary SG-CPM5 Ethernet Connection |
| 3. Secondary SG-CPM5 Automation and Printer Port | 8. Primary SG-CPM5 Automation and Printer Port |
| 4. Secondary SG-PSU5 AC Power Connection (see note) | 9. Primary SG-PSU5 AC Power Connection (see note) |
| 5. Secondary SG-CPM5 Display Connection | 10. Primary SG-CPM5 Display Connection |

NOTE: The power cord must be routed ¼ inch away from all other cables coming from or which are part of the SG-System 5.

Limited Warranty

Digital Security Controls warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty:

(i) freight cost to the repair centre; (ii) products which are not identified with DSC's product label and lot number or serial number; (iii) products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorisation number (RMA) is issued by DSC's Customer Service.

Digital Security Controls's liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

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This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Installer's Lockout

Any products returned to DSC which have the Installer's Lockout option enabled and exhibit no other problems will be subject to a service charge.

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Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

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FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

Industry Canada

SG-System 5 IC: CAN ICES-3 (B)/NMB-3(B)

R&TTE Declaration of Conformity

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The complete R&TTE Declaration of Conformity can be found at http://www.dsc.com/listings_index.aspx

(CZE) DSC jako výrobce prohlašuje, že tento výrobek je v souladu se všemi relevantními požadavky směrnice 1999/5/EC.

(DAN) DSC erklærer herved at denne komponenten overholder alle vigtige krav samt andre bestemmelser gitt i direktiv 1999/5/EC.

(DUT) Hierbij verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

(FIN) DSC vakuuttaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset.

(FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigences essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

(GER) Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Voraussetzungen der Richtlinie 1999/5/EC entspricht.

(GRE) Δια του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιώδεις απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC.

(ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CE.

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(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/EC.

(SPA) Por la presente, DSC, declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

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