



# Dialogic® SS7HDE

## Regulatory Notices

### United States

### Canada

### European Economic Area (EEA)

### Australia

### New Zealand

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This document contains national requirements for proper operation of telecommunications equipment within the regions listed. The document supplements the Installation Guide (card) that accompanies each product.

Equipment type **SS7HDE** identifies a range of Dialogic® SS7 interface boards in PCI Express format. The notices included in this document cover a range of board variants with different link processing capabilities. Each board is a Dialogic® product with a model number in the format SS7HDExxxxxx. This includes, but is not limited to, Dialogic® SS7HDED4TEQ.

These notices must always be included with each product. Failure to provide this guide when supplying the product will invalidate the approval for that product. System integrators must provide the applicable notices to their end-users in their system user manuals.

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# International Regulatory Notices

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The notices provided in this section should be observed to ensure the proper and safe use of this product worldwide. They shall be supplemented by the notices from subsequent sections that apply in a specific region.

## Safety

Users of this product, and service personnel, must refer to the Safety information included in the documentation supplied with the product, and with any host computer into which the product is to be installed.

Dialogic® SS7HDE boards are approved for installation by service personnel in a host computer, and with host attachments, which are covered by a relevant type approval of their own.

The host must fully enclose the Dialogic® SS7HDE board, except for the face of the End Bracket. The End Bracket must be securely fastened by a screw or clamp to a conductive part of the host providing protective earthing. The host must be provided with instructions for installation that require the protective earthing to be provided by either a dedicated permanently connected conductor, or by connection to a socket-outlet with a protective earthing connection.

It is a condition of approval that the power required by the host and the total of all adapter boards installed within the host environment, together with any auxiliary apparatus, does not exceed the power specification as stated in the Technical Reference Manual of the host apparatus. The maximum power required by this product is 1.6A @ +12V, 0.5A @ +3.3V.

### SAFETY WARNING!

**TELECOMMUNICATIONS NETWORK CONNECTION: The digital telecommunication interfaces (T1/E1) of Dialogic® SS7HDE boards are intended for direct connection to "outside plant" signal conductors (metallic), limited to cables not exceeding 1000m. When so connected they require additional 'primary protection', by carbon blocks or better. When so connected they are considered to be, and meet the requirements of, TNV-1 circuits, and the cables connecting to them shall be kept apart from any cables of SELV circuits. Refer also to any region-specific regulatory requirements of network connection in the Regional Regulatory Notices, Safety or Telecommunications sections. In North America the T1 lines are SELV only.**

The digital telecommunication interfaces (T1/E1) of Dialogic® SS7HDE boards are intended for connection to telecommunication network voltage (TNV) circuits that may carry dangerous voltages. The interface cord(s) must remain disconnected from the telecommunication network until the board has been installed within a host that provides the necessary protection of the operator.

If service personnel subsequently require to open the host equipment for any reason, the telecommunication interface (T1/E1) cord(s) must be disconnected prior to effecting access to any internal parts that may carry telecommunication network voltages.

In order to maintain the host-independent approval for the network interface, it is essential that, when other option boards are introduced which use or generate a hazardous voltage (as defined in IEC/EN 60950-1), the minimum creepage and clearance distances specified in the table below are maintained.

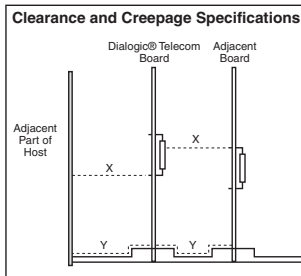
The board or assembly holding the network interface must be installed such that, with the exception of the connections to the host, clearance and creepage distances shown in the table below are maintained between the board or assembly holding the network interface, and any part of the host, including other option boards or assemblies. Failure to maintain these minimum distances will invalidate the approval.

Minimum Clearance (X mm)	Minimum Creepage (Y mm)	Voltage used or generated by other parts of the host, including other cards or assemblies
2.0	2.4	< 50 Vrms or Vdc
2.6	3.0	< 125 Vrms or Vdc
4.0	5.0	< 250 Vrms or Vdc

Minimum Clearance (X mm)	Minimum Creepage (Y mm)	Voltage used or generated by other parts of the host, including other cards or assemblies
4.0	6.4	<300 Vrms or Vdc

The above creepage distances apply in a normal office environment. In the presence of conductive pollution, or voltages greater than 300 V (rms or dc), or if you have any doubt, seek advice from a competent telecommunication safety engineer before the installation.

Creepage and clearance distances can be checked by measuring between the adjacent parts as shown below. Clearance distance X is the shortest distance in air between two parts. Creepage distance Y is the length of the creepage path between the same two parts.



It is not intended for this product to be installed in a home or residential environment. It is not intended for this product to be installed or operated in a stressful or inordinary environment such as industrial sites, medical applications, or in flammable/explosive environments.

## EMC

### WARNING!

**This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.**

### Installation of Cables

In order to ensure that the EMC performance of the product meets regulatory requirements:

- Cables used for the PCM Interface Ports (T1/E1), marked L1 to L4, shall be twisted-pair shielded cables, grounded at both ends.
- Cables used for the Ethernet Ports, marked ENET, shall be shielded cables.

### Further Information

For further information on good EMC practice, the installer should consult the IEC61000-5-x series of technical reports on the subject of Electromagnetic Compatibility (EMC) - Installation and Mitigation Guidelines. In particular the following sections are recommended:

- IEC61000-5-1 - General Considerations
- IEC61000-5-2 - Earthing and Cabling
- IEC61000-5-6 - Mitigation of External EM Influences

## Telecommunications

The telecommunication interfaces of this product are primary rate telecommunications (PCM) interfaces, configurable as T1 or E1 interfaces, with selectable pulse shape, line code and frame format. For information on setting the product configuration, see the *Dialogic® SS7HD Programmer's Manual*. The developer/installer must ensure that the interfaces are configured to give an implementation that complies with the services offered by the local Public Switched Telephone Network (PSTN) operator. Application developers implementing supplementary services at application level must ensure that their implementation complies with the services offered by the local PSTN operator. In case of doubt, network specifications must be consulted.

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# Regulatory Specifications and Declarations

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## Specifications Demonstrating Compliance

### Safety Compliance

USA: Canada:	UL Listed to U.S. and Canadian safety standards. File number E310851 UL/CSA 60950-1 – 2nd Edition - 2007
Europe:	EN 60950-1: 2006 including National deviations
Australia: New Zealand:	AS/NZS 60950.1: 2003 - for national variations to IEC (below).
International:	CB Certificate to IEC 60950-1: 2nd Edition (2005-12), with National and group differences according to CB Bulletin No. 112A

### Electromagnetic Compatibility (EMC)

USA:	FCC, 47 CFR, Part 15, Subpart B - Unintentional Radiators, verified Class A digital device
Canada:	ICES-003 Issue 4 - Feb 2004 - Class A, Digital Apparatus
Europe:	EN 300 386 V1.4.1 (2007-04) ERM; Telecommunication Network Equipment; EMC EN 55022: 2006, Class A Limits, ITE Radiated & Conducted Emissions EN 55024: 1998 +A1:2001 +A2:2003, ITE Immunity Characteristics EN 61000-4-2, ESD Immunity EN 61000-4-3, Radiated Immunity EN 61000-4-4, Electrical Fast Transients/Bursts EN 61000-4-5, AC Surge (AC powered products only) EN 61000-4-6, Conducted RF Immunity EN 61000-4-8, Power Frequency Magnetic Fields EN 61000-4-11, Voltage Dips and Interrupts
Australia: New Zealand:	EN 300 386 V1.4.1 (2007-04) ERM; Telecommunication Network Equipment; EMC
International:	CISPR 22 Ed 5.2 b:2006, Class A Limit

### Telecommunications Compliance

USA:	TIA-968-A, TIA-968-A-1, TIA-968-A-2, TIA-968-A-3, TIA-968-A-4, TIA968-A-5, TIA-1096 – FCC Part 68 rules as adopted by ACTA Interface classified as an "XD" terminal device (T1 DSX-1 type) ACTA Product-Labeling number; US: ICKCNNANSS7HDE
Canada:	Industry Canada CS-03 Issue 9 – A3 October 2006 Registered number; IC: 885F-SS7HDE
Europe:	ETSI – EN 300 420 V1.2.1 (2001-07) ETSI – EN 300 166 V1.2.1 (2001-09) and EN 300 248 V1.2.1 (2001-07) ETSI – TR 103 050 V1.2.1 (2002-09) ETSI – TBR 12 Ed 1 (1993-12) +A1 (1996-01) and TBR 13 Ed 1 (1996-01) ITU-T – G.703 (11/01), G.704 (10/98), G.706 (04/91), G.823(03/00), and K 41 (05/98)

# Declarations of the Manufacturer or Importer

The Declaration of Conformity for this product is copied below, or can be downloaded from:  
<http://www.dialogic.com/declarations/>.

	<h2 style="margin: 0;">Declaration of Conformity</h2> <p style="margin: 0;">No: D0068 Revision 01</p>
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The equipment described below is declared to be in conformity with the following applicable national and international standards. The conformity is valid ONLY when the equipment is used in a manner consistent with the manufacturer's recommendations and the reference documents.

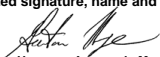
**Equipment Type(s):** SS7 Signaling boards PCI Express  
 Dialogic<sup>®</sup> SS7HDE

Document No / Edition /Date	Title
IEC 60950-1 – 2 <sup>nd</sup> Edition (2005-12)	Safety of Information Technology Equipment
UL/CSA 60950-1 – 2 <sup>nd</sup> Edition (2007)	Safety of Information Technology Equipment
EN 60950-1: 2006	Safety of Information Technology Equipment
AS/NZS 60950.1: 2003	Safety of Information Technology Equipment
FCC, 47 CFR Part 15, Class A digital device	Radio Frequency Devices - Subpart B - Unintentional Radiators
ICES-003 Issue 4 - Feb 2004, Class A	Interference-Causing Equipment Standards - Digital Apparatus
EN 300 386 V1.4.1 (2007-04)	ERM; Telecommunication Network Equipment; EMC
EN 55022: 2006, Class A Limit	Information Technology Equipment - Radio Disturbance Characteristics
EN 55024: 1998 +A1 +A2	Information Technology Equipment - Immunity Characteristics
CISPR 22 Ed 5.2 b:2006, Class A Limit	Information Technology Equipment - Radio Disturbance Characteristics
TIA-968-A + TIA-968-A1 + TIA-968-A2 + TIA-968-A3 + TIA-968-A4 + TIA-968-A5 + TIA-1096	Technical Requirements for Connection of Terminal Equipment to the Telephone Network
CS-03 Issue 9, A3 April 07, Part II	Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements
ETSI TBR 12 + A1 ed.1 (1996-01)	2048kbit/s Digital Unstructured Leased Lines (D2048U): Attachment Requirements for Terminal Equipment I/F
ETSI TBR 13 ed.1 (1996-01)	2048kbit/s Digital Structured Leased Lines (D2048S): Attachment Requirements for Terminal Equipment I/F

Additional information:	
Australia test reports	Underwriters Laboratories Inc test report # E219415-A6 dated February-2008 covers AS/NZS 60950.1 National Technical Systems test report # 41015-07 dated 14-December-2007 covers EN 300 386

**Regions:**

European Economic Area (EEA) :Dialogic Corporation (address below) declares the equipment in compliance with the essential requirements of EC Council Directives : 1999/5/EC - R&TTE : 2006/95/EC - Safety/LVD : 2004/108/EC – EMC
USA : Dialogic Corporation (address below) make this SDoC as Responsible Party for equipment registered with ACTA as number : US: ICKCNNANS7HDE
Canada : Dialogic Corporation (address below) is the Declaring Party for equipment registered with Industry Canada as number : IC: 885F-SS7HDE
Australia: Supplier Code N964 [Dialogic Pty Ltd., Level 12, 1 Pacific Highway North Sydney NSW 2060] ACN: 064 824 899
Any other region where the Regulatory Requirements are satisfied by compliance to the standards declared above.

This Declaration of Conformity is issued by Dialogic Corporation, which is solely responsible for the declared compliance.	
<b>Company Address:</b>  Dialogic Corporation 9800 Cavendish 5 <sup>th</sup> floor Montreal, Quebec Canada, H4M 2V9	<b>Authorized signature, name and function:</b>   Gaejan Hogue - Approvals Manager Date: 6, February, 2008

Dialogic Distribution Limited, our location in Europe operates from:  
 Unit 4034 Kingswood Avenue Citywest Business Campus, Saggart, Co. Dublin, Ireland.

Copies of this Declaration of Conformity may be downloaded at <http://www.dialogic.com/declarations>

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# Regional Regulatory Notices

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## United States Regulatory Notice

### Safety

The Dialogic® SS7HDE board is for use only with UL listed computers that have installation instructions detailing user installation of card cage accessories. The T1 lines provided on this board are SELV and must not be connected to outside lines.

### EMC - FCC Part 15 Compliance Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operating in a commercial environment. 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. Operation of this equipment in a residential area is likely to cause harmful interference in which case, the user is required to correct the interference at their own expense.

### Telecommunications - FCC Part 68 Statement

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the pcb of this equipment is a label that contains, among other information, an ACTA product-labelling number in the format US: AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

For this equipment the Facilities Interface Code (FIC) may be 04DU9.BN, 04DU9.DN, 04DU9.1KN, or 04DU9.1SN according to configuration of equipment, and the Service Order Code (SOC) is 6.ON.

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

The T1 interface provided on this equipment is classified by the FCC as an "XD" terminal device (T1 DSX-1 type) and must be connected behind a registered CSU or PBX.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of the service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

To return a board for warranty repair or any other returns, please contact your Dialogic vendor from whom you purchased the board or Dialogic Technical Services and Support (see <http://www.dialogic.com/support/contact/> for contact information). If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

The mounting of the approved unit in the final assembly must be made so that the approved unit is isolated from exposure to any hazardous voltages within the assembly. Adequate separation and restraint of cables and cords must be provided. The final assembler shall provide in the consumer instructions all applicable customer information.

Telephone companies report that electrical surges, typically lightning transients, are very destructive to customer terminal equipment connected to AC power sources. The use of a surge arrester on the AC line is recommended.

For ACTA / FCC Part 68 Registration of this product to remain valid, all other computer-based components integrated with this product to provide your telephony function must also be ACTA / FCC Registered for such use. To determine this, look for the Registration number on all components and ensure that the equipment code "CE" or "CN" is part of that number. (Refer to the Registration number on this product as an example.) Equipment code "CN" is for computer-based cards that provide a network interface; code "CE" is for computer-based cards that connect to "CN" cards, but which do not provide a network interface.

Additionally, it must be determined that the various components are compatible for working together, and that the overall functionality implemented is ACTA / FCC compliant. Compatibility may best be assured if all components are manufactured by Dialogic, although it may be possible to determine the compatibility of this product with components from other manufacturers. In some circumstances, it may be possible to demonstrate compatibility with components with equipment codes other than "CN" or "CE", but it is the system integrator's responsibility to ensure this.

If any system components are not Registered, the system integrator becomes responsible for ACTA / FCC Registration of the assembled system prior to connection to the network. Registration specifies the requirement to maintain this approval, which involves taking responsibility for the following:

- If any component device is added to the system, whether that component bears component registration or not, a compliance evaluation must be done.
- If any component device within the system is modified or updated by its manufacturer, a compliance evaluation must be done.
- As a result of such compliance evaluation, additional testing may need to be performed and/or a modification filing may need to be made to ACTA before the new or updated component can be used.
- If you continue to assemble additional quantities of this system, you are required to comply with the ACTA Continuing Compliance requirements.

## **Canada Regulatory Notice**

### **Safety**

The Dialogic® SS7HDE boards are for use only with UL listed computers that have installation instructions detailing user installation of card cage accessories. The T1 lines provided on this board are SELV and must not be connected to outside lines.

### **EMC - ICES-003**

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à La norme NMB-003 du Canada.

### **Telecommunications Attachment**

This product meets the applicable Industry Canada technical specifications.

## **Australia / New Zealand Regulatory Notice**

### **Safety**

These boards must be installed and serviced by suitably qualified personnel. These boards must only be installed by personnel that understand the electrical safety implications of connecting the board to other equipment. In particular, the installer must understand the definition of a telecommunication network and safety extra low voltage circuits.

### **Telecommunications**

The primary role of this product is as Telecommunications Network Equipment.

The product is not considered to be Customer Equipment (CE).

It is the responsibility of the system integrator / network operator to ensure that installations meet Telecommunication specifications in support of interconnect agreements.

## **European Economic Area (EEA) Regulatory Notice**

### **CE Declaration of Conformity**

The Products carry the CE mark.



Hereby, Dialogic Corporation, declares that Dialogic® SS7HDE products are in compliance with the essential requirements and other relevant provisions of European Union Directives 1999/5/EC (R&TTE), 2004/108/EC (EMC Directive) and 2006/95/EC (Low Voltage Directive).

To achieve CE compliance, be sure to select a host computer that already meets the EMC and Low Voltage Directives before the addition of any optional board. Remember that the use of option boards declared compliant with the Directives by their manufacturer only gives "presumption of compliance" for the whole system. It is the responsibility of the system supplier to verify that the requirements of the listed Directives are still met by the final system as supplied to an end user. System integrators should take notice of further conditions expressed in the safety and other sections.

#### **[Česky]**

Dialogic Corporation tímto prohlašuje, že tento SS7HDE je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES, 2004/108/ES, 2006/95/ES.

#### **[Dansk]**

Undertegnede Dialogic Corporation erklærer herved, at følgende udstyr SS7HDE overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF, 2004/108/EF, 2006/95/EF.

#### **[Deutsch]**

Hiermit erklärt Dialogic Corporation, dass sich das Gerät SS7HDE in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG, 2004/108/EG, 2006/95/EG befindet.

#### **[Eesti]**

Käesolevaga kinnitab Dialogic Corporation seadme SS7HDE vastavust direktiivi 1999/5/EÜ, 2004/108/EÜ, 2006/95/EÜ, põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

#### **[Español]**

Por medio de la presente Dialogic Corporation declara que el SS7HDE cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE, 2004/108/CE, 2006/95/CE.

#### **[Ελληνική]**

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Dialogic Corporation ΔΗΛΩΝΕΙ ΟΤΙ ΣΣ7ΗΔΕ ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ, 2004/108/ΕΚ, 2006/95/ΕΚ.

#### **[Français]**

Par la présente Dialogic Corporation déclare que l'appareil SS7HDE est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE, 2004/108/CE, 2006/95/CE.

#### **[Italiano]**

Con la presente Dialogic Corporation dichiara che questo SS7HDE è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE, 2004/108/CE, 2006/95/CE.

#### **[Latviski]**

Ar šo Dialogic Corporation deklarē, ka SS7HDE atbilst Direktīvas 1999/5/EK, 2004/108/EK, 2006/95/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

#### **[Lietuvių]**

Šiuo Dialogic Corporation deklaruojama, kad šis SS7HDE atitinka esminius reikalavimus ir kitas 1999/5/EB, 2004/108/EB, 2006/95/EB, Direktyvos nuostatas.

#### **[Magyar]**

Alulírott, Dialogic Corporation nyilatkozom, hogy a SS7HDE megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EK, 2004/108/EK, 2006/95/EK, irányelv egyéb előírásainak.

#### **[Malti]**

Hawnhekk, Dialogic Corporation, jiddikjara li dan SS7HDE jikkonforma mal-htigjiet essenzjali u ma provvedimenti oħrajn rilevanti li hemm fid-Direttiva 1999/5/KE, 2004/108/KE, 2006/95/KE.

#### **[Nederlands]**

Hierbij verklaart Dialogic Corporation dat het toestel SS7HDE in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG, 2004/108/EG, 2006/95/EG.



#### **[Polski]**

Niniejszym, Dialogic Corporation, oświadcza, że SS7HDE jest zgodny z zasadniczymi wymogami oraz pozostającymi stosownymi postanowieniami Dyrektywy 1999/5/WE, 2004/108/WE, 2006/95/WE.

#### **[Português]**

Dialogic Corporation declara que este SS7HDE está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE, 2004/108/CE, 2006/95/CE.

#### **[Slovensko]**

Dialogic Corporation izjavlja, da je ta SS7HDE v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES, 2004/108/ES, 2006/95/ES.

#### **[Slovensky]**

Dialogic Corporation týmto vyhlasuje, že SS7HDE spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES, 2004/108/ES, 2006/95/ES.

#### **[Suomi]**

Dialogic Corporation vakuuttaa täten että SS7HDE tyyppinen laite on direktiivin 1999/5/EY, 2004/108/EY, 2006/95/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

#### **[Svenska]**

Härmed intygar Dialogic Corporation att denna SS7HDE står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG, 2004/108/EG, 2006/95/EG.

#### **[Íslenska]**

Hér með lýsir Dialogic Corporation yfir því að SS7HDE er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC, 2004/108/EC, 2006/95/EC.

#### **[Norsk]**

Dialogic Corporation erklærer herved at utstyret SS7HDE er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF, 2004/108/EF, 2006/95/EF.

### **European Union Telecommunications**

In the European Union, the R&TTE Directive imposes that each Public Switched Telephone Network (PSTN) operator makes available the specifications of the network services offered.

The telecommunication (PCM) interfaces of the Dialogic® SS7HDE boards have been successfully tested against TBR12 and TBR13 when configured for E1 operation.

### **Manufacturer's office in European Union**

Dialogic Distribution Limited  
Unit 4034  
Citywest Business Campus  
Saggart, Co Dublin  
IRELAND

Tel: +353 1 630 9000  
Fax: +353 1 630 0099

### **Finland, Sweden, Norway - Additional Safety Requirements**

Special conditions apply to the use of this product in Finland, Sweden and Norway, due to unusual earthing arrangements in those countries. These conditions must be noted by:

- customers in those countries, receiving this 'board product' for integration into systems.
- product integrators that install this 'board product' in a host, and create a 'system product' that may be delivered to those countries.

There are two alternative approaches by which the special conditions can be satisfied:

- the use of T1/E1 ports must be restricted to connection only to SELV circuits. This means that they must not be connected to "outside plant" signal conductors. They may however be connected to SELV ports of whatever equipment interfaces to "outside lines".

OR

- if TNV connections are to be made to the T1/E1 ports, then the following restrictions must be applied to the 'system products' into which this 'board product' is integrated. The 'system product' must fit into ONE OF three categories:
  - Permanently Connected Equipment.
  - Pluggable Equipment Type B.
  - Equipment specified for use only in Restricted Access Locations where equipotential bonding has been applied.

Additionally the 'system product' documentation must contain BOTH OF the following instructions:

- that a Protective Earthing Conductor must be installed by a service person, and must be permanently connected.
- details of how that Conductor shall be installed.

For explanation of the terminology of this section, consult EN 60950-1:2006, and especially Annex ZB - 6.1.2.2.

## Product Environmental Information

During August 2005, the European Union Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and its amendment (2003/108/EC), collectively known as the WEEE Directive, came into force throughout most of the European Union. This Dialogic® product comes within the scope of the WEEE Directive. We are confident that this product will provide you with many years of reliable service. Moreover, we are pleased to advise you that Dialogic warrants this product, as detailed in the user guide and provides a fee based repair service when the product is out of warranty. However, a time will come when the product will no longer meet your needs or will become un-economic to repair. It is at that stage that we ask for your co-operation in recycling this product in the spirit of the WEEE directive.

Dialogic has taken great care to minimize the environmental burden of this product by careful design and manufacturing it under an Environmental Management System, registered to ISO14001. The requirements of ISO14001 are similar to and as rigorous as the requirements of ISO9001, Quality Management Systems with which you may be more familiar. We ask you to help us to ensure that the environmental burden of this product is minimized when it is of no further use to you by recycling it. Please do not dispose of this product through municipal or general waste systems because it contains materials which can be economically recycled. Like all electrical and electronic equipment, including televisions and computers, it may contain small amounts of materials which could lead to environmental damage. To minimize any environmental damage we ask you to have this product recycled by:

- **bringing it to the recycling collection point in your company**
- **by handing it into the store where you are purchasing the replacement**
- **by delivering it to a local bring-centre in your area**

No charge can be imposed on you for this recycling service, in the European Union, as Dialogic has paid for recycling this product when it was placed on the market. These are requirements of the WEEE directive. We thank you in advance for your co-operation and working with Dialogic in protecting our environment.



**Please do not dispose of this product through municipal or general waste, recycle it.**