



Ref. Certif. No.

JPTUV-009900

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST
CERTIFICATES FOR ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
CERTIFICATS D'ESSAIS DES EQUIPEMENTS
ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Hard Disk Drive

Name and address of the applicant
Nom et adresse du demandeur

Hitachi Global Storage Technologies Japan, Ltd.
Fujisawa Plant
1 Kiri-hara-cho, Fujisawa-shi, Kanagawa 252-8555, Japan

Name and address of the manufacturer
Nom et adresse du fabricant

Hitachi Global Storage Technologies Japan, Ltd.
Fujisawa Plant
1 Kiri-hara-cho, Fujisawa-shi, Kanagawa 252-8555, Japan

Name and address of the factory
Nom et adresse de l'usine

(See appendix for factories information)

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

DC 5V/12V; max. 1.5A/2.0A (refer to the test report)
Class III

Trade mark (if any)
Marque de fabrique (si elle existe)

HITACHI

Model/type Ref.
Ref. de type

HDS7225nnVLATnn, HDS7225nnVLA^{SA}nn, HDS724040KLAT80
HDS724040KLSA80, HDS7280nnPLxxnn, HDT7225nnDLxxnn
HDS725050KLAxxx, HDT7225nnDLA3nn
(n = 0 - 9, x = A - Z, 0 - 9)

Additional information (if necessary)
Information complémentaire (si nécessaire)

For model differences, refer to the test report.

A sample of the product was tested and found
to be in conformity with
Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 60950:1999
inclusive CENELEC Common Modifications
National differences see test report

As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue une partie de ce Certificat

12010305 001

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



TUV Rheinland Group

TUV Rheinland Japan Ltd.
Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama, Kohoku-ku
Yokohama 222-0033 Japan
Phone + 81 45 470-1850
Fax + 81 45 473-5221
Mail: info@jpn.tuv.com
Web: www.tuv.com

Signature:

Dipl.-Ing. W. Herlitschke

Date: 21.12.2004



**Underwriters
Laboratories Inc.®**

Northbrook Division

333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800
fax: 1 847 272 8129
Customer service: 1 877 854 3577

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

2004-02-02

Ms Noriko Nakaide
Hitachi Global Storage Technologies
3-165-12 Sengencho
Yokohama, Nishi-Ku
Kanagawa 220-0072 Japan

Fax number: 81-45-322-1089

Reference: File E182115 Project 04NK04138 P.O. Number 0312622

Product: USR/CNR- UR/C-UR:SAFETY - ADD HARD DISK DRIVE, MODEL HDS7280NNPLXXNN

Dear Ms Nakaide,

UL's investigation of your product has been completed under the above project number and the subject product was determined to comply with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Recognized Marking and/or Recognized Component Mark only at the factory under UL's Follow-Up Service Program to the subject product, which is constructed as described below:

Identical to the subject model, which was submitted to UL for this investigation. The UL Records covering the product will be in the Follow-Up Services Procedure, File E182115, Volume X1.

This authorization applies only to the address on this letter.

This authorization is effective from the date of this Notice and only for products at the indicated manufacturing locations. Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent to the indicated manufacturing locations in the near future. Please note that Follow-Up Services Procedures are sent to the manufacturers only unless the Applicant specifically requests this document.

Products that bear the UL Mark shall be identical to those that were evaluated by UL and found to comply with UL's requirements. If changes in construction are discovered, appropriate action will be taken for products not in conformance with UL's requirements and continued use of the UL Mark may be withdrawn.

Sincerely,

Shabib Sajid
Engineering Group Leader
Department: 3013MNBK
Tel: 847-664-3503
Fax: 847-313-3503
E-mail: shabib.sajid@us.ul.com

Reviewed by:

Bradley Rowe
Senior Staff Engineer
Department: 3013MNBK

An independent organization working for a safer world with integrity, precision and knowledge.



EC DECLARATION OF CONFORMITY
for
HITACHI HDS7280xxPLATxx Hard Disk Drive
(x : any numeral)

We Hitachi Global Storage Technologies Japan, Ltd., declare under our sole responsibility that the above-named products, manufactured by :

Hitachi Global Storage Technologies Japan, Ltd.

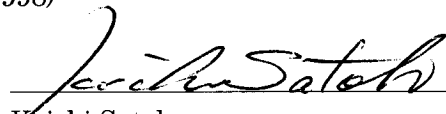
1, Kirihara-cho, Fujisawa-shi,
Kanagawa-ken, 252-8555 Japan

to which this declaration relates, is in conformity with the requirements of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

This Declaration of Conformity is based upon compliance of the product with the following harmonized standards :

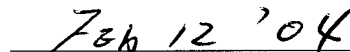
EN 55022(1998) (Class B)
EN 55024(1998)

Signed :


Koichi Satoh
Deputy General Manager of Desktop BU

Place of issue : Hitachi Global Storage Technologies Japan, Ltd.
1, Kirihara-cho,
Fujisawa-shi, Kanagawa-ken,
252-8555 Japan

Date of issue :



符合性聲明書
Declaration of Conformity

報驗義務人代碼	編	號
D33373		

本符合性聲明書應依商品檢驗法規定備齊相關技術文件後始得簽具

報驗義務人：新加坡商日立環球儲存科技股份有限公司 臺灣分公司

地址：臺北市敦化北路 167 號 5 樓(宏國大樓)

電話：(02)3518-1681

商品中（英）文名稱：(中文) 3.5 inch 硬碟機

(英文) 3.5 inch Hard Disk Drive

商品型式（或型號）：(1) HDS728040PLAT80 (2) HDS728040PLAT20

(3) HDS728080PLAT80 (4) HDS728080PLAT20

符合之檢驗標準及版次：CNS 13438(6375) 乙類 1997

試驗報告編號：KSI041021

試驗室名稱及代號：Token EMC Engineering Co., Ltd.

(SL2-IN-E-6003)

茲聲明上述商品符合商品檢驗法符合性聲明之規定，若因違反本聲明書所
聲明之內容，願意擔負相關法律責任。

報驗義務人：新加坡商日立環球儲存科技股份有限公司臺灣分公司(簽章)

中 華 民 國 九 十 三 年 一 月 二 十 日

정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 전자파적합등록(EMC Registration)

Certification Type

성 명 또는 상 호 히타치글로벌스토리지테크놀러지스아시아파티아엘티디

Trade Name or Applicant

기 기 의 명 칭 HDD

Equipment Name

기 기 의 모 델 명 HDS728040PLAT20

Model Number of Equipment

인 증 번 호 E-H011-03-5625 (B)

Certification No

제 조 자 및 제 조 국 가 HITACHI GLOBAL STORAGE TECHNOLOGIES THAILAND, LTD.,Hitachi
Manufacturer and Country of Origin Global Storage Technologies Japan Ltd./태국,중국

인 증 년 월 일 2003년(Year) 12월(Month) 26일(Date)

Date of Certification

기 타

Others

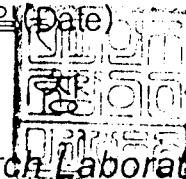
위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.

It is certified that foregoing equipment has been certificated under the provisions of the Regulations on Certification of Information and Communication Equipment.

2003년(Year) 12월(Month) 30일(Date)

전 파 연 구 소

*Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea*



정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 전자파적합등록(EMC Registration)

Certification Type

성 명 또는 상 호 히타치글로벌스토리지테크놀러지스아시아피티엘티디

Trade Name or Applicant

기 기 의 명 칭 HDD

Equipment Name

기 기 의 모 델 명 HDS728040PLAT80

Model Number of Equipment

인 증 번 호 E-H011-03-5626 (B)

Certification No

제 조 자 및 제 조 국 가 HITACHI GLOBAL STORAGE TECHNOLOGIES THAILAND, LTD., Hitachi
Manufacturer and Country of Origin Global Storage Technologies Japan Ltd./태국, 중국

인 증 년 월 일 2003년(Year) 12월(Month) 26일(Date)

Date of Certification

기 타

Others

위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.

It is certified that foregoing equipment has been certificated under the provisions of the Regulations on Certification of Information and Communication Equipment.

2003년(Year) 12월(Month) 30일(Date)

전 파 연 구 소



*Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea*

정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 전자파적합등록(EMC Registration)
Certification Type

성 명 또는 상 호 히타치글로벌스토리지테크놀로지스아시아피티이엘티디
Trade Name or Applicant

기 기 의 명 칭 HDD
Equipment Name

기 기 의 모 델 명 HDS728080PLAT20
Model Number of Equipment

인 증 번 호 E-H011-03-5638 (B)
Certification No

제 조 자 및 제 조 국 가 HITACHI GLOBAL STORAGE TECHNOLOGIES THAILAND, LTD., Hitachi
Manufacturer and Country of Origin Global Technologies Japan Ltd/태국, 중국

인 증 년 월 일 2003년(Year) 12월(Month) 29일(Date)
Date of Certification

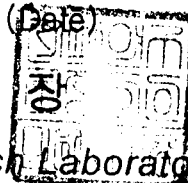
기 타
Others

위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the provisions of the Regulations on Certification of Information and Communication Equipment.

2004년(Year) 01월(Month) 03일(Date)

전 파 연 구 소

Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea



정보통신기기 인증서

Certificate of Information and Communication Equipment

인 증 종 류 전자파적합등록(EMC Registration)

Certification Type

성 명 또는 상 호 히타치글로벌스토리지테크놀로지스아시아피티엘티디

Trade Name or Applicant

기 기 의 명 칭 HDD

Equipment Name

기 기 의 모 델 명 HDS728080PLAT80

Model Number of Equipment

인 증 번 호 E-H011-03-5640 (B)

Certification No

제 조 자 및 제 조 국 가 HITACHI GLOBAL STORAGE TECHNOLOGIES THAILAND, LTD., Hitachi
Global Technologies Japan Ltd/태국, 중국

*Manufacturer and Country
of Origin*

인 증 년 월 일 2003년(Year) 12월(Month) 29일(Date)

Date of Certification

기 타

Others

위 기기는 정보통신기기 인증규칙에 의해 인증되었음을 증명합니다.
*It is certified that foregoing equipment has been certificated under
the provisions of the Regulations on Certification of Information
and Communication Equipment.*

2004년(Year) 01월(Month) 03일(Date)

전 파 연 구 소 장

*Director General of Radio Research Laboratory
Ministry of Information and Communication
Republic of Korea*



Supplier's declaration of conformity

For compliance levels 1,2 and 3 in Australia and Levels of Conformity 1,2 and 3 in New Zealand.
As required by notices under section 182 of the Australian Radiocommunications Act 1992
and section 134 of the New Zealand Radiocommunications Act 1989.

RF 3 (JUN '02)



Australian
Communications
Authority



Ministry of Economic
Development

Te Kaitiaki Take Kōwhiri
Radio Spectrum

THIS COMPLETED FORM REMAINS WITH THE SUPPLIER
AS PART OF THE DOCUMENTATION REQUIRED FOR THE COMPLIANCE RECORDS
DO NOT RETURN TO THE ACA OR NZMED.

Supplier details

Name (NAME OF MANUFACTURER OR IMPORTER)

NJM TECHNOLOGY SOLUTIONS

PTY LTD

Address (ADDRESS OF MANUFACTURER OR IMPORTER)

43 FOREST LANE, MARKWOOD,

VICTORIA POSTCODE 3678

ACA / NZMED supplier code number

N13508

Australian company number (ACN), or

099 627 246

Australian registered body number (ARBN), or

Australian business number (ABN), or

57 099 627 246

New Zealand company number (NZCN), or

New Zealand GST number

Product details

Product description—brand name, model, lot, batch or serial number (IF AVAILABLE)

HITACHI GLOBAL STORAGE TECHNOLOGIES DESKSTAR 7K80

3.5 INCH 7200 RPM ATA INTERFACE HARD DISK DRIVE

MODEL NUMBERS HDS728040PLAT20
HDS728040PLAT80
HDS728080PLAT20
HDS728080PLAT80

Applicable Standards details

Standard title, number, edition and if applicable the test report number

AS/NZS 3548: 1995
IEC CISPR22: 2003-04

EMC TEST REPORT NUMBER: TOKIN KSI041022

Declaration

I hereby declare that the product mentioned above complies with the
above mentioned standards and all products supplied under this
Declaration will be identical to the sample identified above.

Signature of supplier / agent

Date

17, 02, 04

NIGEL MATHESON

PRINT NAME

MANAGING DIRECTOR

POSITION IN ORGANISATION

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50024834

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0010

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
0312623	ZJ-MIK- 12004967 004	29.01.2004	

Genehmigungsinhaber *License Holder*
Hitachi Global Storage Technologies
Japan, Ltd.
Fujisawa Plant
1 Kirihara-cho
Fujisawa-shi, Kanagawa 252-8555
Japan

Fertigungsstätte *Manufacturing Plant*
Hitachi Global Storage Technologies
Japan, Ltd.
Fujisawa Plant
1 Kirihara-cho
Fujisawa-shi, Kanagawa 252-8555
Japan

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60950:2000



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Plattenspeicher Hard Disk Drive

Addition

Type Designation :	HDS7280nnPLxxxnn	1
	n = 0 - 9	
	x = A - Z or 0 - 9	1
Rated Voltages :	DC 5V 12V	
Rated Currents :	490mA 600mA	

2

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product
fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althoff@de.tuv.com



Zertifizierungsstelle

Dipl.-Ing. W. Nölke

I-TEC Corporation

Mr. Yokoyama,
Engineering Group

3-165-12, Sengen-cho, Nishi-ku
Yokohama 220-0072, Japan

Date: 28.01.2004
Our ref.: 3035273
Your ref.: 0312623

Sending Approved Document for Hard Disk Drive

Type Designation : HDS7225nnVLATnn, HDS7280nnPLxxnn
License No. : R 50024834
Test Report No. : 12004967 004
License Holder : Hitachi Global Storage Technologies Japan, Ltd., Fujisawa Plant

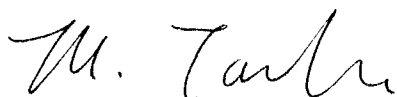
Dear Mr. Yokoyama,

Enclosed, please find a copy of your documents, authorized by us, stamped "Genehmigt/ Approved" and dated 28.01.2004. Please forward it to the license holder.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services.

With kind regards,

TÜV RHEINLAND JAPAN LTD.
Product Safety and Quality



M. Tanaka
Technical Support




M. Koschalka
Project Engineer

Enclosure

NOTICE OF ALTERATIONS/MODIFICATION

(変更通知)

Applicant (申請会社名):	Hitachi Global Storage Technologies Japan Ltd.		Page:	1 of 1	
Signature (サイン):		Ref. No.:	0312623	Date:	2003-12-18
Product (製品名):	Hard Disk Drive	Type designation (型式):	HDS7225nnVLATnn		
Report No.:	12004967	License No.:	R 50024834		

Methods (Design / Component) Presently Employed (変更前 : 現行)	Alteration/Modification to be Introduced (変更後)
<p>1. Type Designation</p>	<p>1. Addition of models HDS7280nnPLxxnn (n = 0 - 9, x = A - Z or 0 - 9) Rated 5 V dc, 490 mA / 12 V dc, 600 mA</p>
<p>2. Spindle Motor</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>TÜV Rheinland Japan Product Safety Dept Genehmigt/Approved 28.01.2004 <i>Mika Hoshizuka</i> Rep. No.: 12004967 004</p> </div>	<p>2. Spindle Motor for model HDS7280nnPLxxnn</p> <p>Manufacturer : Nidec Co., Ltd. Type : Part No. 13G0415 Rating : DC 12 V, 440 mA Insulation class : Class B</p>

- 記入の仕方 : 変更前 (現行) と変更後の対比、違いが明確に理解できる書き方 (英語) でお願いします。
特に 1 次側の変更か 2 次側の変更かを明記下さい。

TÜV Rheinland Japan Ltd.

Member of TÜV Rheinland Berlin Brandenburg Group

Hitachi Global Storage Technologies
Japan, Ltd.
Mr.S.Matsumoto, Product Safety
Engineer
CS & Business Transformation
Fujisawa Plant
1 Kirihara-cho
Fujisawa-shi, Kanagawa 252-8555
Japan

Date : 29.01.2004
Our ref. : MIK ZJ
Your ref.: 0312623

Ref : R TÜV-Mark Approval

Type of Equipment : Hard Disk Drive
Model Designation : See Certificate
Certificate No. : R 50024834 0010
- Report No. : 12004967 004

Dear Mr.S.Matsumoto,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Please find enclosed your certificate as specified above.

If cancellation of the certificate is submitted by 15 November in a given year, no fee will be charged for the following year.

We appreciate your support and would like to offer our assistance in the approval of your future products through our extensive range of technical services. Please feel free to contact us whatever your requirements may be.

With kind regards,

Certification Body

- 

Dipl.-Ing. W. Nölke

CC: I-TEC Corp.

Enclosure

Yokohama Head Office

Shin Yokohama Daini Center Bldg.
3-19-5, Shin Yokohama
Kohoku-ku, Yokohama 222-0033, Japan

Tel. : (045) 470-1850
Fax : (045) 473-5221
e-mail : info@jpn.tuv.com

Yokohama Laboratory

Festo Building 5F
1-26-10, Hayabuchi, Tsuzuki-ku
Yokohama 224-0025, Japan

Tel. : (045) 592-1371
Fax : (045) 592-1374
e-mail : yoko-lab@jpn.tuv.com