

Ultrastar C10K600 Agency Certification

Version 1.2

April 2011

 **Hitachi Global Storage Technologies**

Contents

Ultrastar C10K600

- USA - UL
- Hitachi CE, ICES, VCCI Declaration of Conformity
- Taiwan - BSMI
- Australia – CTick and DoC
- EMEA – TUV Bauart
- Korea - KCC



Ref. Certif. No.

US/14860/UL

IEC SYSTEM FOR CONFORMITY TESTING AND
CERTIFICATION OF ELECTRICAL EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE ET DE CERTIFICATION
DES EQUIPEMENTS ELECTRIQUES (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product
Produit

Hard Disk Drive Ultrastar C10K800 Series

Name and address of the applicant
Nom et adresse du demandeur

HITACHI GLOBAL STORAGE TECHNOLOGIES INC
5801 GREAT OAKS PKY SAN JOSE CA 95119, USA

Name and address of the manufacturer
Nom et adresse du fabricant

HITACHI GLOBAL STORAGE TECHNOLOGIES INC
5801 GREAT OAKS PKY SAN JOSE CA 95119, USA

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

HITACHI GLOBAL STORAGE TECHNOLOGIES (THAILAND) LTD
203 205 MOO 7 TAMBON THA TUM AMPHUR SRIMAHAPHOTE
PRACHINBURI 25140, THAILAND

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

5 Vdc, 0.8 A; 12 Vdc, 0.4 A

Trademark (if any)
Marque de fabrique (si elle existe)

HITACHI

Model / Type Ref.
Ref. de type

HUC1080xxCSS80y, where xx = 60, 45 or 30 and y = 0 or 1

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

The CB Test Report comprises 3 enclosures.

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*

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 partie de ce Certificat*

PUBLICATION

IEC 60950-1 (2005) Second Edition
Additionally evaluated to EN60950-1 (2006) with Am. 11 (2009) to include Group
and National Differences for European countries; other National Differences also
specified in the CB Test Report.

E240353-A8-CB-1

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



**Underwriters
Laboratories**

Date: Issued: 2010 March 26

Underwriters Laboratories Inc. / GMA Certification Department, US
333 Pfingsten Road, Northbrook, IL 60062-2096
United States of America
TEL INT* +1 847 664 3008, FAX INT* +1 847 313 3008
email: jolanta.m.wroblewska@us.ul.com

Signature:

Jolanta M. Wroblewska



HITACHI

Inspire the Next

Hitachi Global Storage Technologies, Inc.
5601 Great Oaks Parkway
San Jose, CA 95119-1003 USA
Tel: 800-801-4618 Fax: 408-717-5000
www.hgst.com

CE, ICES and VCCI Declaration of Conformity

We,
Hitachi Global Storage Technologies
5601 Great Oaks Parkway
San Jose, CA 95119-1003

Declare, under our sole responsibility, that the Hitachi Ultrastar C10K600 series of products (model part numbers: HUC106060CSS600, HUC106060CSS601, HUC106045CSS600, HUC106045CSS601, HUC106030CSS600, HUC106030CSS601)

And manufactured at
Hitachi Global Storage Technologies Thailand Ltd.
203, 205 Moo7, Tambon Tha Tum, Amphur Srimahaphote
Prachinburi 25140 Thailand
Tel: +66 37208700

Conform to the following European Directives:

1. Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.
2. Council Directive 2006/95/EC on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

The CE Declaration of conformity has been assessed for the Hitachi Ultrastar C10K600 Model numbers where "xx" = 60, 45, or 30, and "y" = 0, 1. HUC1060xxCSS60y (Serial Attached SCSI) – SAS, 6 Gb/s

Hitachi Global Storage Technologies

Schedule A

Conformity with Council Directive 2006/95/EC on the approximation of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits, is based on compliance with the following harmonized standards:

EN 60950-1:2006 with Am. 11, **Second Edition**
IEC 60950-1:2005, **Second Edition**
UL 60950-1, **Second Edition**, 2007-03-27
CSA C22.2 No. 60950-1-07, **Second Edition**, 2007-03

Schedule B

Conformity with Council Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility is based on compliance of the product to the following harmonized standards:

- 1: EN 55022: 2006 + A1:2007 (Class B for SAS)
- 2: EN 55024: 1998 +A1:2001 +A2:2003
- 3: EN 61000-3-2: 2006
- 4: EN 61000-3-3:1995 + A1:2001 + A2:2005


And conform to the following Directives:

VCCI Japanese Standards of Confirmation

- 1. All SAS models conform to the requirements of the 2007 VCCI Class B harmonized standards of electromagnetic compatibility.

ICES-003 Canadian Standards of Confirmation

- 1. All Class B digital apparatus (SAS hard disk drives) comply with Canadian ICES-003, Issue 4, 2004 Class B standards.



Tony Dunn, Program Director

4/14/2010 9/23/2010
Date of issue Date of Revision

符合性聲明書
Declaration of Conformity

報驗義務人代碼 Code of the applicant	編號 Number
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
Please check all the related technical documents in accordance with the Commodity Inspection Act before signing the form.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司

Obligatory Applicant

地址：台北市敦化北路 167 號 5 樓(宏國大樓)

Address

電話：02-3518-1681

Telephone

商品中 (英) 文名稱：(中文) 硬碟機

Commodity Name

(英文) HARD DISK DRIVE

商品型式 (或型號)：HUC106030CSS600, HUC106030CSS601

Commodity Type (Model)

HUC106045CSS600, HUC106045CSS601

HUC106060CSS600, HUC106060CSS601

符合之檢驗標準及版次：CNS 13438, 2006 (Taiwan)

Standard(s) and version

試驗報告編號：IBMR1146

Test Report Number

試驗室名稱及代號：IBM Rochester EMC Lab

Testing laboratory name and designation number

SL2-IN-E-1039

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。

I hereby declare that the listed commodity conforms to Declaration of Conformity requirements stipulated in the Commodity Inspection Act. I agree to take any legal obligations should violations against the Declaration of Conformity occur.

報驗義務人：新加坡商日立環球儲存科技股份有限公司台灣分公司 (簽章)

Obligatory Applicant

(Signature)



中 華 民 國 九 十 九 年 四 月 二 日
DATE (year) (month) (day)

Supplier's declaration of conformity

For compliance level 1, 2 and 3 in Australia

As required under notices under

- Section 182 of the Australian Radiocommunications Act 1992



Instructions for completion

This completed form remains with the supplier as part of the documentation required for the compliance records. Do not return this form to Australian Communications and Media Authority.

Supplier's details

Company Name (name of manufacturer, importer or agent)

NJM Technology Solutions Pty Ltd.

ACMA supplier code number

N13508

Address (address of manufacturer, importer or agent)

43 Forest Lane

Markwood

Victoria POSTCODE 3678

ABN, ACN or ARBN

57 099 627 286

Product details

HITACHI GLOBAL STORAGE TECHNOLOGIES ULTRASTAR C10K600
2.5 INCH 10000 RPM SAS INTERFACE HARD DISK DRIVE

MODELS COVERED: HUC106030CSS600
HUC106030CSS601
HUC106045CSS600
HUC106045CSS601
HUC106060CSS600
HUC106060CSS601

Compliance with Radiocommunications (Electromagnetic Compatibility) Standard 2008

The above mentioned product complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. Evidence of compliance is demonstrated by test reports to the following applicable standards.

Applicable standards

EN55022:2006 +A1:2007

EMC Test Report Number: IBMR1146 Dated April 2nd 2010
Prepared By: IBM Rochester EMC Lab.

Declaration

I hereby declare that the product mentioned above complies with the requirements of the Radiocommunications (Electromagnetic Compatibility) Standard 2008. All products supplied under this declaration will be identical to the product identified above.

Signature

Name

Nigel Matheson

Position in Organisation

Managing Director

Date

April 21st 2010

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 72100855

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0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
Mike Lorelli	-MW- 30883549 002	21.04.2010	

Genehmigungsinhaber *License Holder*
Hitachi Global Storage Technologies
5601 Great Oaks Parkway
San Jose CA 95119
USA

Fertigungsstätte *Manufacturing Plant*
Hitachi Global Storage Technologies
(Thailand) Ltd.
Amphur Srimahaphote
203, 205 M007 Tambon Tha Tum
25140 Prachinburi Province
Thailand

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 60950-1:2006+A11



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Data carrier Hard Disk Drive

Model Designation: HUC1060xxCSS60y
(xx = 60, 45, 30; y = 0, 1)

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Rated Voltage: 1) DC 5V
2) DC 12V
Rated Current: 1) 0,8A
2) 0,4A

Protection Class: III
Rated Ambient Temperature: 55°C

Special Remarks: To be installed according to the licensee's installation instructions.



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ANLAGE (Appendix): 1, 1-2

*Das Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.*

Zertifizierungsstelle

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety
Inh. = 745219 / Deb. = 745219 / Fert. = 753913

Dipl.-Ing. M. Kieß

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 72100855

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0002

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i> (day/mo/yr)
Mike Lorelli	-NLC- 30883549 004	23.03.2011	

Genehmigungsinhaber *License Holder*
Hitachi Global Storage Technologies
5601 Great Oaks Parkway
San Jose CA 95119
USA

Fertigungsstätte *Manufacturing Plant*
Hitachi Global Storage
Technologies Singapore Pte. Ltd.
4, Kaki Bukit, Ave 1, #03-08,
Singapore 417939
Singapore

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 60950-1:2006+A11

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Data carrier Hard Disk Drive

Addition:

Manufacturing Plant: see above

(K751344)



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.

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Zertifizierungsstelle

Dipl.-Ing. M. Glagla

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com

Fax: +49 221 806-3935 http://www.tuv.com/safety

Inh. = 745219 / Deb. = 745219 / Fert. = 751344



방송통신기기인증서
Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀러지스아시아퍼티엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUC106030CSS600
과생모델명 <i>Series Model Number</i>	HUC106030CSS601
인증번호 <i>Certification No</i>	HGS-HUC106030CSS60 (B)
제조사/ 제조국가 <i>Manufacturer/ Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGES (THAILAND) LTD./태국
인증연월일 <i>Date of Certification</i>	2010년(Year) 05월(Month) 06일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under the Framework Act on Telecommunications and Radio Waves Act.

2010년(Year) 05월(Month) 06일(Date)

전파연구소장



*Director General of Radio Research Agency
Korea Communications Commission Republic of Korea*



전자문서확인번호 1QYH-Y5XR-9A23-0GYQ



방송통신기기인증서
Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀러지스아시아퍼티아엘티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUC106045CSS600
과생모델명 <i>Series Model Number</i>	HUC106045CSS601
인증번호 <i>Certification No</i>	HGS-HUC106045CSS60 (B)
제조사/ 제조국가 <i>Manufacturer/ Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGES (THAILAND) LTD./태국
인증연월일 <i>Date of Certification</i>	2010년(Year) 05월(Month) 06일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
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2010년(Year) 05월(Month) 06일(Date)

전파연구소장

*Director General of Radio Research Agency
Korea Communications Commission Republic of Korea*

* 진위여부는 www.ekcc.go.kr에서 확인할 수 있습니다.

* 복사본은 앞단 복사방지마크의 '핀' 또는 '본' 글자가 사라집니다.





방송통신기기인증서

Certificate of Broadcasting and Communication Equipment

인증의 종류 <i>Certification Type</i>	전자파적합등록(EMC Registration)
상호 또는 성명 <i>Trade Name or Applicant</i>	히타치글로벌스토리지테크놀로지스아시아퍼티얼티디(영업소)
기기의 명칭 <i>Equipment Name</i>	Hard Disk Drive
기본모델명 <i>Basic Model Number</i>	HUC106060CSS600
과생모델명 <i>Series Model Number</i>	HUC106060CSS601
인증번호 <i>Certification No</i>	HGS-HUC106060CSS60 (B)
제조자/ 제조국가 <i>Manufacturer/ Country of Origin</i>	HITACHI GLOBAL STORAGE TECHNOLOGES (THAILAND) LTD./태국
인증연월일 <i>Date of Certification</i>	2010년(Year) 05월(Month) 06일(Date)
기타 <i>Others</i>	

위 기기는 「전기통신기본법」, 「전파법」에 따라 인증되었음을 증명합니다.
It is certified that foregoing equipment has been certificated under
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2010년(Year) 05월(Month) 06일(Date)

전파연구소장

Director General of Radio Research Agency
Korea Communications Commission Republic of Korea