

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR: Component - Hard Disk Drive, Models DK211A-XY, DK211C-XY, DK221A-XY and DK221C-XY, DK212A-XY, DK222A-XY, DK213A-XY, and DK223A-XY, where X is 10-99, Y is A-Z or blank. Models MP680A, MP680S, MP510A, MP510S, MP340A, MP340S, DK214A-XY, DK224A-XY, DK225A-XY, DK226A-XY, DK227A-XY, DK236A-XY, DK237A-XY, DK228A-XY, DK238A-XY, DK229A-XY, DK239A-XY, DK22AA-XY, and DK23AA-XY, DK23BW-XY, DK23CW-XY, DK23DW-XY, DK23EA-XY, DK23FA-XV where X is 01-99, Y and W are A-Z or blank, V is J-Z. Models HTC4240xF7ATy0, \*HTC4240xF9ATy0, HTA4220xF9ATJ0 where x is 01-99, y is 0-9.

## ELECTRICAL RATING:

Model	Input	
	Voltage (dc)	Current
DK211A-XY, DK211C-XY, MP680A, MP680S, MP510A, MP510S, DK212A-XY	5 V	1.2 A
DK221A-XY, DK221C-XY, MP340A, MP340S, DK222A-XY	5 V	1.1 A
DK213A-XY, DK223A-XY, DK227A-XY, DK237A-XY, DK228A-XY, DK238A-XY, DK229A-XY, DK239A-XY, DK22AA-XY, DK23AA-XY, DK23BW-XY, DK23CW-XY, DK23DW-XY, DK23EA-XY	5 V	0.5 A
DK214A-XY, DK224A-XY, DK225A-XY, DK226A-XY, DK236A-XY	5 V	0.53 A
*DK23FA-XV, HTA4220xF9ATJ0	5 V	1.0 A
HTC4240xF7ATy0, *HTC4240xF9ATy0	3.3/5 V	0.5 A

## ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR/CNR indicates investigation to the U.S. and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, CSA C22.2 No. 60950 \* UL 60950, Third Edition, dated December 1, 2000.

Use - For use only in (or with) complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

The component was submitted and tested for a maximum manufacturer's recommended ambient (Tmra) of 55°C, except for noted models in Conditions of Acceptability.

Conditions of Acceptability - When installed in the end product, consideration shall be given to the following:

1. This component has been judged on the basis of the required spacings in the Standard for Safety of Information Technology Equipment, CSA/UL 60950, Third Edition, dated December 1, 2000, Sub-clause 2.10, which would cover the component itself if submitted for Listing.
2. The terminals and connectors are suitable for factory wiring only.
3. A suitable enclosure and mounting means should be provided when the unit is installed in the end-use product.
4. The temperature should be checked in the end-use product to ensure that adequate ventilation is provided to prevent overheating of components.
5. Models DK237A-XY, DK228A-XY, DK238A-XY, DK229A-XY, DK239A-XY, DK22AA-XY, DK23AA-XY, DK23BW-XY, DK23CW-XY, DK23DW-XY, DK23EA-XY, DK23FA-XV, \*HTC4240xF7ATy0, HTC4240xF9ATy0, HTA4220xF9ATJ0 shall be supplied by power from Limited Power Source of end-product.
6. \*Models DK23FA-XV and HTA4220xF9ATJ0 were submitted and tested for a maximum manufacturer's recommended ambient (Tmra) of 85°C. The following components should be given special consideration during end-use Heating Tests because of temperatures achieved during component level testing at 85°C ambient temperature.

Components	Maximum Temperature Achieved
Spindle Motor	97.7°C
Head Motor at aluminum base	97.3°C
PWB Outer Surface	98.7°C
Aluminum Cover at Top	95.6°C

7. \*Models HTC4240xF7ATy0 and HTC4240xF9ATy0 were submitted and tested for a maximum manufacturer's recommended ambient (Tmra) as follows: 60°C for 3.3 V dc input and 55°C for 5 V dc input. The following components should be given special consideration during end-use Heating Tests because of temperatures achieved during component level testing at 5 V dc input considering Tmra.

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Components	Maximum Temperature Achieved
PWB Outer Surface at IC4	96.3°C

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# Zertifikat

# Certificate



Zertifikat Nr. Certificate No.  
R 95688

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Ihr Zeichen Client Reference  
C4K40-SAFETY

Unser Zeichen Our Reference  
ZJ-MIM- 00095687 041

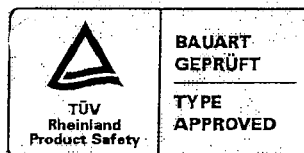
Ausstellungsdatum  
25.02.2003

Date of Issue  
(day/mo/yr)

Genehmigungsinhaber License Holder  
Hitachi, Ltd.  
2880 Kozu  
Odawara-shi, Kanagawa 256-8510  
Japan

Fertigungsstätte Manufacturing Plant  
Hitachi, Ltd.  
2880 Kozu  
Odawara-shi, Kanagawa 256-8510  
Japan

### Prüfzeichen Test Mark



### Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11  
IEC 60950:1991+A1+A2+A3+A4

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

Plattenspeicher Disk Storage

### Addition

Type Designations	:	HTC4240xF7ATy0	1
		HTC4240xF9ATy0	1
		x = 01 - 99	
		y = 0 - 9	1
Rated Voltage	:	DC 3.3V or 5V	
Rated Current	:	0.5A	
Max. Ambient Temperature	:	60°C	55°C



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ANLAGE (Appendix): 1.7

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.

Zertifizierungsstelle

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

Dipl.-Ing. W. Nölke

# HITACHI

## DECLARATION OF CONFORMITY ( for CE marking )

We : Hitachi Global Storage Technologies Japan Ltd.  
declare under our sole responsibility that the products:

Product : Hard Disk Drive (1.8 inch)  
Models : HTC424020F7AT00  
          HTC424040F9AT00  
          HTC423030F9ATD0

manufactured by:

Hitachi Global Storage Technologies Japan Ltd.  
2880 Kozu, Odawara-shi, Kanagawa-ken, 256-8510, Japan  
and  
Hitachi Global Storage Technologies Philippines Corp.  
Laguna Technopark, Binan Laguna Philippines

to which this declaration relates is in conformity with the following  
standards or other normative documents:

EMC : EN 55 022 :1998 / A1:2000 (Class B)  
      EN 55 024 :1998 / A1:2001

and therefore conforms with the protection requirements council Directives  
89/336/EEC relating to electromagnetic compatibility.

Date: July , 22 ,2003

Place:  
Hitachi Global Storage Technologies  
Japan, Ltd.  
2880 Kozu, Odawara-shi, Kanagawa-ken,  
256-8510, Japan

Signed: Reijiro Tsuchiya  
Reijiro Tsuchiya  
Senior Manager  
Mobile HDD Business Unit

# 정보통신기기 인증서

## *Certificate of Information and Communication Equipment*

인 증 종 류 전자파적합등록(EMC Registration)  
*Certification Type*

성 명 또 는 상 호 히다찌아시아(홍콩)리미티드  
*Trade Name or Applicant*

기 기 의 명 칭 HDD  
*Equipment Name*

기 기 의 모 델 명 DK13FA-40  
*Model Number of Equipment*

인 증 번 호 E-H011-03-1595 ( B )  
*Certification No*

제 조 자 및 제 조 국 가 Hitachi Global Storage Technologies Japan, Ltd./일본  
*Manufacturer and Country of Origin*

인 증 년 월 일 2003년(Year) 04월(Month) 14일(Date)  
*Date of Certification*

기 타 모델추가:HTC424040F9AT00, 제조자/국추가:Hitachi Global Storage  
*Others* Technologies Philippines Corp./필리핀

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) 04월(Month) 28일(Date)

전 파 연 구 소



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

# 정보통신기기 인증서

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*Trade Name or Applicant*

기 기 의 명 칭 HDD  
*Equipment Name*

기 기 의 모 델 명 DK14FA-20  
*Model Number of Equipment*

인 증 번 호 E-H011-03-1624 ( B )  
*Certification No*

제 조 자 및 제 조 국 가 Hitachi Global Storage Technologies Japan, Ltd./일본  
*Manufacturer and Country of Origin*

인 증 년 월 일 2003년(Year) 04월(Month) 15일(Date)  
*Date of Certification*

기 타 제조자/국추가:Hitachi Global Storage Technologies Philippines Corp./필리핀, 모델추가:HTC424020F7AT00  
*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) 04월(Month) 28일(Date)

전 파 연 구 소



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

# HITACHI

## SUPPLIER'S DECLARATION OF CONFORMITY ( for C-tick marking )

Declaration of Conformity with Electromagnetic Compatibility Standards  
as Required under the Radio communications Act.

We : Hitachi Australia Ltd.  
Level 3, 82 Waterloo Road, North Ryde, N.S.W. 2113,  
Australia

as the representative of

Manufacturer : Hitachi Global Storage Technologies Japan Ltd.  
2880 Kozu, Odawara-shi, Kanagawa-ken, 256-8510 Japan  
and  
Hitachi Global Storage Technologies Philippines Corp.  
Laguna Technopark, Binan Laguna Philippines

ACN 075 381 332 Supplier Code (if applicable) N155

declare under our sole responsibility that the products:

Product : Hard Disk Drive (1.8 inch)  
Models : HTC424020F7AT00  
HTC424040F9AT00

to which this declaration relates is in conformity with the following standard(s):

Title	Number	Date of issue
<u>Information technology equipment</u>	<u>AS/NZS 3548 (Class B)</u>	<u>1995</u>
	<u>Amendment 1</u>	<u>1997</u>
	<u>Amendment 2</u>	<u>1997</u>

15 July '03

(Place, Date)



Peter Steele

Hitachi Australia Ltd.  
Level 3, 82 Waterloo Road,  
North Ryde, N.S.W. 2113,  
Australia

Technical Support Manager  
Business Integration Group  
Tel: 02-9888-4100, Fax: 02-9888-4144