SKR002 (V11 1/2D) Regulatory Assurance Certification



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Issue Date: 7 Jan 2020 Revision 5.1

Safety Certification

Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN 60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Korea under Underwriter Laboratories (UL) file E190397. Attached is the Certificate of Compliance to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD Korea Corporation. Attached is the TUV SUD Certificate.

Pass/Fail Criteria:

Product meets the stipulated Safety requirements.

Product:

Product Name: Hard Disk Drive

Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the hard disk drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	c FL °us
TUV EN 60950-1, IEC 60950-1 TUV EN 62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC62368, EN62368	TÜV

CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397

Report Reference E190397-A34-UL

Issue Date 2017-APRIL-28

Issued to: SEAGATE SINGAPORE INTERNATIONAL

HEADQUARTERS PTE LTD

THE SHUGART

26 AYER RAJAH CRESCENT SINGAPORE 139944 SINGAPORE

This is to certify that representative samples of COMPONENT - INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS

EQUIPMENT

Hard Disk Drive: SKR002

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum for standards.

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: May be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

Bruce Mahmeholt: Director North American Certification Program

ULLLO

Any information and documentation involving Ut. Mark services are provided on behalf of Ut. LLC (Ut.) or any authorized licenses of Ut. For questions, please



CERTIFICATE OF COMPLIANCE

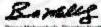
Certificate Number 20170428-E190397

Report Reference E190397-A34-UL 2017-APRIL-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Standards for Safety:

UL 60950-1, Information Technology Equipment - Safety - Part 1: General Requirements CAN/CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements



Bruce Mahrenholz, Director North American Certification Program

ULLLC





CERTIFICATE

No. B 16 11 87435 048

Holder of Certificate: Seagate Technology International

> 18, 59 beon-gil, Poeun-daero Suji-gu Yongin-city, Gyeonggi-do 448-130

REPUBLIC OF KOREA

Production Facility(ies):

64076, 61810

Certification Mark:



Product: Hard disk drive

Model(s): **SKR002**

Trademark: SEAGATE

Parameters: Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A

Protection Class:

Tested according to: EN 60950-1:2006/A2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 077-2271216-001

Valid until: 2021-11-03

Date, 2016-11-04 (Havard Lee)

Page 1 of 1







CERTIFICATE

No. B 061811 0162 Rev. 00

Holder of Certificate: Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent

Singapore 139944 SINGAPORE

Production

061810, 064076

Facility(ies):

Certification Mark:



Product: Hard disk drive

Model(s): SKR002

Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A Parameters:

Protection class:

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

SEAGATE **Brand Name:**

EN 62368-1:2014/A11:2017 Tested according to:

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 077-1321619-000 Valid until: 2024-12-08

Date, 2019-12-09

Page 1 of 1 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany





SG PSB-OF-00428A1

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

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

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

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

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

Model/type Ref. Ref. de type

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

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 une partie de ce certificat

Hard disk drive

Seagate Technology International

18, 59 beon-gil, Poeun-daero Suji-gu

Vessin city, Cyconggi do 448 130, REBURI IC C

Yongin-city, Gyeonggi-do 448-130, REPUBLIC OF KOREA

Seagate Technology International

18, 59 beon-gil, Poeun-daero Suji-gu, Yongin-city, Gyeonggi-do 448-130,

REPUBLIC OF KOREA

Seagate Technology (Wuxi) International Co., Ltd.

106 Xing Chuang Er Lu,, Wuxi-Singapore Industrial Park,, 214028 Wuxi,

JiangSu, PEOPLE'S REPUBLIC OF CHINA For further information please see attachment

Rated input : Protection class :

 $5\ V\ d.c.,\ 0.55\ A$ and $12\ V\ d.c.,\ 0.37\ A$

S :

SEAGATE

SKR002

Certificate SG PSB-OF-00428 issued 2016-08-05 is replaced by this version due to non-technical changes. See Test Report for National and Group Differences.

IEC 60950-1:2005

IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013

TÜV SÜD PSB Pte Ltd 077-2271216-001

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

Date,

2016-11-04 CBS 16 11 87435 049 (Havard Lee)

SUD

PSB Singapore



CB Certificate Ref. No. SG PSB-OF-00428A1

Additional factory information

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

Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur Sungnoen Nakhon Ratchasima 30170 THAILAND

Trade Mark



Date: 2016-11-04

Signature: (Havard Lee)

PSB Singapore



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

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trade mark

Model/type Ref.

Additional information (if necessary)

to be in conformity with as shown in the Test Report Ref. No. which forms part of this certificate

A sample of the product was tested and found

Hard disk drive

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent Singapore 139944 SINGAPORE

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent, Singapore 139944, SINGAPORE

Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND

Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA

Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A

Protection class: III

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

SEAGATE

SKR002

See Test Report for National and Group Differences.

IEC 62368-1:2018

077-2321619-000

This CB Test Certificate is issued by the National Certification Body

CBS 061811 0163 Rev. 00

Date: 2019-12-10

(Kevin Park)

J. ...



ElectroMagnetic Compatibility

Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, C-tick(RCM), and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, C-tick(RCM), and VCCI are found in EN 55032 Class B. Immunity requirements for CE Marking are defined in EN 55024

Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop or Desktop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

- 1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
- 2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz {CE, C-tick(RCM), VCCI}
- 3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
- 4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
- 5. AC power line harmonics, per EN61000-3-2: 2014
- 6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

- 1. Electrostatic discharge per IEC 61000-4-2 (Level B)
- 2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
- 3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
- 4. Surge Immunity per IEC 61000-4-5 (Level B)
- 5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
- 6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
- 7. Voltage Dips and Interrupts per IEC 61000-4-11 (Level B, C)

Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn

Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.

Product:

Product Name: SKR002 (V11 1D / 2D)

Conclusion:

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to hard disk drive.

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032:2015 - Class B	Pass	
EN 61000-3-2: 2014	Pass	
EN 61000-3-3: 2013	Pass	
EN 55024: 2010	Pass	
IEC 61000-4-2: 2008	Pass	
IEC 61000-4-3: 2010	Pass	_
IEC 61000-4-4: 1995	Pass	
IEC 61000-4-5: 1995	Pass	
IEC 61000-4-6: 1996	Pass	
IEC 61000-4-8: 1993	Pass	
IEC 61000-4-11: 1994	Pass	

Test Data:

EMC Immunity Test Results

Line initiality rest research				
Specification	Test Method	Test Conditions	Compliance	
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant	
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant	
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant	
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant	
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant	
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant	
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant	



EU DECLARATION OF CONFORMITY

TYPE OF EQUIPMENT: REGULATORY MODEL: Internal Product Name: TRADE/BRAND NAME: Hard Disc Drive SKR002 V11 1D/2D Seagate

I. Product Safety and EMC Compliance

A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013

Electromagnetic compatibility of multimedia equipment -

Emission requirements.

EN 55024:2010

Information technology equipment - Immunity characteristics -

Limits and methods of measurement.

EN 61000-3-2:2014

Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current <= 16 A

per phase).

EN 61000-3-3:2013

Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase.

B. The product meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006 /A11:2009

Information Technology Equipment - Safety- (Second Edition)

/A1:2010 /A12:2011/A2:2013 Part 1: General Requirements

EN 62368-1:2014/AC:2015

Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014,

Modified)

II. Product Environmental Compliance (EU/China)

A. The product(s) meets the requirements of the Directive 2011/65/EU RoHS "Recast" (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 and by application of the following standards:

EN 50581:2012 Technical documentation for the assessment of electrical and

electronic products with respect to the restriction of hazardous

substances.

EN 62321-6:2015 Determination of certain substances in electrotechnical products.

Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS).

China RoHS Management Methods for Controlling Pollution by Electronic

Information Products, Ministry of Information Industry Order No.

39 (China RoHS)

China RoHS 2 Management Methods for the Restriction of the Use of Hazardous

Substances in electrical and Electronic Products, Ministry of

Industry and Information Technology Order No. 32 effective July 1,

2016 (China RoHS 2)

JS709B Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for

Electronic Products

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6(c)	Copper alloy up to 4% lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

III. **Due Diligence**

A. For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.

B. Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed and an internal auditing process to ensure compliance with all standard operating procedures.

Year to Begin Affixing Mark: 2016

Manufacturer's Name: Manufacturer's Address: Seagate Technology, LLC

10200 South De Anza Blvd.

Cupertino, California 95014-3029 U.S.A.

European Contact:

Seagate Technology International

Koolhovenlaan 1 1119 NB Schiphol-Rijk

The Netherlands

Date of Issue: Jan 7, 2020

Signature:

Azeez Talha, Engineering Director



Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd

Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited Level 7, 91 Phillip St PARRAMATTA NSW 2150 AUSTRALIA

Declare under our sole responsibility that the following product(s):

Hard Disk Data	a Storage Drive			
Model: SKR0	02			
to which this dec	claration relates is in	confc	rmity with the following standard(s):	
Title			Test Regulation	
Australian/New	Zealand Standard	_	AS/NZS CISPR 32 : 2015	
		_		
(Name of the Au	thorized Person) _		Sam Zavaglia	
(Title of the Auth	orized Person) _	Seni	or Field Applications Engineer	
(Date of Issue)	8 th August 2016			
(Signature)				

符合性聲明書 Declaration of Conformity

報驗義務人代碼 編號
Code of the applicant Number
D33027 STX19050205

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.

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Obligatory Applicant	00 200225W			- 2000				
地址: <u>臺北市</u> Address	公山區往	夏興北路 3	363 號]	14 樓				
電話: 02-2514	-2273							
Telephone								1 10
商品中(英) \$	(名稱:	硬式磁碼	核機					
Commodity Name								
商品型式(或型	划號):	SKR002						
Commodity Type (M	(odel)							
ST4000DM004, ST300 ST3000VM006, ST200 ST4000VX009, ST200 ST1000DM013,ST400	0VM005, 0VX010, 5	ST4000VX00	5, ST3000	VX009, ST	2000VX00	07, ST4000V1	N010, ST	
符合之檢驗標準及 Standard(s) and version	.版次:(CNS 13438/ Co	omplete 20	06 Class B.	Section 5	"Marking of	presence'	of CNS 15663 (2013
試驗報告編號: <u>T</u> Test Report Number	160713C	10E, ATS	/GENV/7	738A/16/y	rao			
試驗室名稱及代號	::香港	商立德國際	商品試易	会有限公:	, ALS	TECHNICH	IEM (S) PTE LTD
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방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) Equipment Name	HARD DISK DRIVE
기본모델명 Basic Model Number	SKR002
파생모델명 Series Model Number	ST3000VX009, ST4000VX010, ST1000DM013, ST1000VX009, ST2000VX012, ST1000VX008, ST1000VM005, ST4000VN010, ST4000VX005, ST2000VM005, ST3000VM006, ST4000VM004, ST2000VN003, ST3000VN006, ST4000VN006, ST2000DM005, ST3000DM007, ST4000DM004, ST2000VX010, ST4000VX009, ST2000VN006, ST2000VX007
등록번호 Registration No.	MSIP-REM-STX-SKR002
제조자/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 중국, 태국
등록연월일 Date of Registration	2016-07-28
기타 Others	

위 기자재는 「전파법」제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2019년(Year) 03월(Month) 28일(Day)

국립전파연구원장

Director General of National Radio Research Agency

※ 적합등복 방송통신기자재는 반드시 "적합성평가표시"를 부차하여 유통하여야 합니다. 위반시 파태료 처분 및 등록이 취소될 수 있습니다.



Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15B 47 CFR FCC Part 15B (Class B)

ICES-003 Issue 6, Class B Information Technology Equipment (ITE) - Limits

and methods of measurement

Manufacturer Name: Seagate Technology, Incorporated

Manufacturer Address: 10200 South DeAnza Boulevard
(And Importer) Cupertino California 95014

Type of Equipment : Hard Disc Data Storage Drive

Product Name: SKR002 (V11 1D / 2D)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

Location: <u>Seagate Singapore Design Centre, Singapore</u>

(Signature)

Certificate Date: 29 Mar 2019 Hui Wei Qianq (Full Printed Name)

Engineer (position)

Reg Model: SKR005 (V11X) Certification Report



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This document has been issued electronically. Only the original recipient of the document will be notified with revision information.

Issue Date: 7 Jan 2020 Revision 3.1

Safety Certification

Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Singapore under Underwriter Laboratories (UL) file E190397. Attached is the Certificate of Compliance to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD Korea Corporation. Attached is the TUV SUD Certificate.

Pass/Fail Criteria:

Product meets the stipulated Safety requirements.

Product:

Product Name: SKR005 (V11X)

Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the SKR005 drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	c FL °us
TUV EN60950-1, IEC 60950-1 TUV EN62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC 62368, EN 62368	SUD thread cont ph-cert

CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397

Report Reference E190397-A36-UL

Issue Date 2017-APRIL-28

Issued to: SEAGATE SINGAPORE INTERNATIONAL

HEADQUARTERS PTE LTD

THE SHUGART

26 AYER RAJAH CRESCENT SINGAPORE 139944 SINGAPORE

This is to certify that COMPONENT - INFORMATION TECHNOLOGY representative samples of EQUIPMENT INCLUDING ELECTRICAL BUSINESS

EQUIPMENT

Hard Disk Drive: SKR005

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum for standards.

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: Mark may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

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ULLLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <a href="https://press.org/html/press



CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20170428-E190397 E190397-A36-UL 2017-APRIL-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Standards for Safety:

UL 60950-1, Information Technology Equipment - Safety - Part 1: General Requirements CAN/CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements

Bruce Mahrenholz, Director North American Certification Program UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, pleases





Ref. Certif. No.

SG PSB-OF-01605M1

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

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trade mark

Model/type Ref.

Additional information (if necessary)

A sample of the product was tested and found to be in conformity with

as shown in the Test Report Ref. No. which forms part of this certificate

Hard disk drive

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent

Singapore 139944 SINGAPORE

Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent, Singapore 139944,

SINGAPORE

Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park,

214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA

Rated input:

5 V d.c., 0.55 A and 12 V d.c., 0.37 A

Protection class: III

Seagate

SKR005

Certificate SG PSB-OF-01605 issued 2017-04-19 is replaced by this

version due to technical changes. See Test Report for National and

Group Differences.

IEC 60950-1:2005

IEC 60950-1:2005/AMD1:2009

IEC 60950-1:2005/AMD2:2013

077-2124817-100

This CB Test Certificate is issued by the National Certification Body

CBS 061811 0149 Rev. 01

2018-08-13 Date.

Page 1 of 2 TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221

y c yu

(Michael Yu)

PSB Singapore



Ref. Certif. No.

SG PSB-OF-01605M1

Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND Name and address of the factory (continued) CBS 061811 0149 Rev. 01 4. c. yu 2018-08-13 Date, (Michael Yu) Page 2 of 2 PSB Singapore TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221



Ref. Certif. No.

SG PSB-IV-00985

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

CB TEST CERTIFICATE

Product

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trade mark

Model/type Ref.

A sample of the product was tested and found

to be in conformity with

Additional information (if necessary).

as shown in the Test Report Ref. No. which forms part of this certificate

Hard disk drive

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent Singapore 139944

SINGAPORE

Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent, Singapore 139944,

SINGAPORE

Seagate Technology (Thailand) Ltd.

90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND

Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA

5 V d.c., 0.55 A and 12 V d.c., 0.37 A Rated input

Protection class: III

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

SEAGATE

SKR005

See Test Report for National and Group Differences.

IEC 62368-1:2018

077-2321419-000

JE E.S.

This CB Test Certificate is issued by the National Certification Body

CBS 061811 0160 Rev. 00 Date. 2019-12-09

(Kevin Park) Page 1 of 1 TÜV SÜD PSB Pte Ltd + 1 Science Park Drive • Singapore 118221

PSB Singapore





CERTIFICATE

No. B 061811 0150 Rev. 01

Holder of Certificate: Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent Singapore 139944

SINGAPORE

Production

Facility(ies):

Certification Mark:

061810, 064076



Product: Hard disk drive

Model(s): SKR005

Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A Parameters:

Protection Class:

Brand Name: Seagate

EN 60950-1:2006/A2:2013 Tested according to:

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

077-2124817-100 Test report no .:

Valid until: 2020-12-19

Date, 2018-08-13

Page 1 of 1 TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

(Michael Yu)

TÜV[®]





CERTIFICATE

No. B 061811 0158 Rev. 00

Holder of Certificate: Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent

Singapore 139944 SINGAPORE

Production Facility(ies): 061810, 064076

Certification Mark:

TÜV SID Isabaran

Product: Hard disk drive

Model(s): SKR005

Parameters: Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A

Protection class: III

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

Brand Name: SEAGATE

Tested according to: EN 62368-1:2014/A11:2017

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 077-1321419-000

Valid until: 2024-12-02

Date, 2019-12-05

(Kavin Park)

ElectroMagnetic Compatibility

Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, RCM, and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, RCM, and VCCI are found in EN 55032. Immunity requirements for CE Marking are defined in EN 55024.

Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

- 1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
- 2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz (CE, RCM, VCCI)
- 3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
- 4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
- 5. AC power line harmonics, per EN61000-3-2: 2014
- 6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

- 1. Electrostatic discharge per IEC 61000-4-2 (Level B)
- 2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
- 3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
- 4. Surge Immunity per IEC 61000-4-5 (Level B)
- 5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
- 6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
- 7. Voltage Dips and Interrupts per IEC 61000-4-11 (Level B, C)

Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn

Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.

Product:

Product Name: SKR005 (V11X)

Conclusion:

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to SKR005 (V11X).

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032: 2012 / AC: 2013	Pass	
EN 61000-3-2 : 2006 +A1 : 2009 + A2 : 2009 - Class A	Pass	
EN 61000-3-3 2013	Pass	
EN 55024: 2010	Pass	
IEC 61000-4-2: 2008	Pass	
IEC 61000-4-3: 2010	Pass	
IEC 61000-4-4: 2004	Pass	
IEC 61000-4-5: 2005	Pass	
IEC 61000-4-6: 2008	Pass	
IEC 61000-4-8: 2009	Pass	
IEC 61000-4-11: 2004	Pass	

Test Data:

EMC Immunity Test Results

Specification	Test Method	Test Conditions	Compliance
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant
Voltage Dips and Interrupts	IEC 61000-4-11	0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant



EU DECLARATION OF CONFORMITY

TYPE OF EQUIPMENT: Hard Disc Drive SKR005 SKR005 V11X TRADE/BRAND NAME: Seagate

I. Product Safety and EMC Compliance

A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013 Electromagnetic compatibility of multimedia equipment —

Emission requirements.

EN 55024:2010 Information technology equipment – Immunity characteristics –

Limits and methods of measurement.

EN 61000-3-2:2014 Electromagnetic compatibility (EMC) - Part 3-2: Limits for

harmonic current emissions (equipment input current <= 16 A

per phase).

EN 61000-3-3:2013 Electromagnetic compatibility (EMC) - Part 3-3: Limitation of

voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current

<= 16 A per phase.

B. The product meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006 /A11:2009

Information Technology Equipment - Safety- (Second Edition)

/A1:2010 /A12:2011/A2:2013 Pa

Part 1: General Requirements

EN 62368-1:2014/AC:2015

Audio/video, information and communication technology

equipment - Part 1: Safety requirements (IEC 62368-1:2014,

Modified)

II. Product Environmental Compliance (EU/China)

A. The product(s) meets the requirements of the Directive 2011/65/EU RoHS "Recast" (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 and by application of the following standards:

EN 50581:2012 Technical documentation for the assessment of electrical and

electronic products with respect to the restriction of hazardous

substances.

EN 62321-6:2015 Determination of certain substances in electrotechnical products.

Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatography-mass spectrometry (GC-MS).

China RoHS Management Methods for Controlling Pollution by Electronic

Information Products, Ministry of Information Industry Order No.

39 (China RoHS)

China RoHS 2 Management Methods for the Restriction of the Use of Hazardous

Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1,

2016 (China RoHS 2)

JS709B Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for

Electronic Products

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6(c)	Copper alloy up to 4% lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

III. Due Diligence

A. For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.

B. Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed and an internal auditing process to ensure compliance with all standard operating procedures.

Year to Begin Af	fixing Mark:	2017
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Manufacturer's Name: Manufacturer's Address: Seagate Technology, LLC 10200 South De Anza Blvd.

Cupertino, California 95014-3029 U.S.A.

European Contact:

Seagate Technology International

Koolhovenlaan 1 1119 NB Schiphol-Rijk

The Netherlands

Date of Issue:

Jan 7, 2020

Signature:

Azeez Talha, Engineering Director



Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited Level 7, 91 Phillip St PARRAMATTA NSW 2150 AUSTRALIA

Hand Diele Data Otanana Duiva

Declare under our sole responsibility that the following product(s):

Hard Disk Data Storage Drive						
Model: SKR005						
to which this declaration relates is in conformity with the following standard(s):						
Title			Test Regulation			
Australian/New Zealand Standard		d	AS/NZS CISPR 32: 2015			
(Name of the Authorized Person)			Sam Zavaglia			
(Title of the Authorized Person)		Seni	or Field Applications Engineer			
(Date of Issue)	21st April 2017					
(Signature)		•				

報應應多人代碼 編 號 Code of the applicant Number D33027 STX1711030€

符合性聲明書

Declaration of Conformity

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:台灣希捷科技股份有限公司						
Obligatory Applicant 地址:臺北市松山區復興 Address	北路 363 號 14 樓	₹B室				
電話: <u>02-2514-2273</u> Telephone						
-	更式磁碟機					
商品型式(或型號): Commodity Type (Model)	SKR005:ST2000)DM008;ST10	000DM010			
符合之檢驗標準及版次: CNS 13438/ Complete 2006 Class B						
Standard(s) and version 試驗報告編號:T170330C17A						
Test Report Number 試驗室名稱及代號:香港商立德國際商品試驗有限公司						
Testing laboratory name and designation n	umber L2-IN-E-0049					
符合性聲明檢驗標識及識 The form of the DoC marking appears like	別號碼:	D33027 RoHS	or	D33027 RoHS		
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所以其為信息。						
I hereby declare that the listed commodity conforms to Declaration of Conflormity requirements stipulated in the Commodity Inspection Ac						
I agree to take any legal obligations should violations against the Declaration of Conformity occur.						
報驗義務人:台灣希捷科	31201111010101010101011	医闭口 医外孔上去针化		yon(簽章)		
The Board Chairman of Seagate Technology Taiwan						
Obligatory Applicant				(Signature)		
中華民國	106 年	11 月	3	日		
DATE	(year)		(month)	(day)		

방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC		
기자재명칭(제품명칭) Equipment Name	Hard Disk Drive		
기본모델명 Basic Model Number	SKR005		
파생모델명 Senies Model Number	ST2000DM008, ST1000DM010		
등록번호 Registration No.	MSIP-REM-STX-SKR005		
제조자/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 중국, 태국		
등록연월일 Date of Registration	2017-04-14		
기타 Others			

위 기자재는 「전파법」제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2018년(Year) 08월(Month) 14일(Day)

국립전파연구원장

Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시"를 부착하여 유통하여야 합니다. 위반시 확대료 처분 및 등록이 취소될 수 있습니다.



Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15B 47 CFR FCC Part 15B (Class B)

ICES-003 Issue 6, Class B Information Technology Equipment (ITE) - Limits

and methods of measurement

Manufacturer Name: Seagate Technology, Incorporated

Manufacturer Address: 10200 South DeAnza Boulevard
Cupertino California 95014

Type of Equipment : <u>Hard Disc Data Storage Drive</u>

Product Name : SKR005 (V11X)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

Location: Seagate Singapore Design Centre, Singapore

(Signature)

Certificate Date: 30 Apr 2017 Hui Wei Qiang (Full Printed Name)

Engineer (position)

SKR004 (V11 3D/4D) Regulatory Assurance Certification



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This document has been issued electronically.

Only the original recipient of the document will be notified with revision information.

Issue Date: 7 Jan 2020 Revision 6.1

Safety Certification

Test Objective:

Verifies that product meets the required Safety requirements as stipulated by UL, and TUV Safety Agencies; and also European Directives:

- UL 60950-1
- TUV EN 60950-1, IEC 60950-1, EN 62368-1, IEC 62368-1

Test Description:

The product was submitted to and tested by the safety agencies.

The product is certified for cUL mark through UL Korea under Underwriter Laboratories (UL) file E190397. Attached is the Certificate of Compliance to apply the cUL mark.

The product is certified for TUV SUD mark through TUV SUD Korea Corporation. Attached is the TUV SUD Certificate.

Pass/Fail Criteria:

Product meets the stipulated Safety requirements.

Product:

Product Name: Hard Disk Drive

Conclusion:

The unit passed the above safety tests and standards. Due to similarities in the hard disk drives, it was only necessary to test one model in order to pass for all models.

Agency / Standards	Conclusion	Approved to Bear Agency's Marks
UL60950-1	Compliance with applicable cUL	c FLL us
TUV EN 60950-1, IEC 60950-1 TUV EN 62368-1, IEC 62368-1	Compliance with IEC60950, EN60950, IEC62368, EN62368	TUV SUD

CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397

Report Reference E190397-A35-UL 2017-APRIL-28

Issued to: SEAGATE SINGAPORE INTERNATIONAL

HEADQUARTERS PTE LTD

THE SHUGART

26 AYER RAJAH CRESCENT SINGAPORE 139944 SINGAPORE

This is to certify that COMPONENT - INFORMATION TECHNOLOGY representative samples of EQUIPMENT INCLUDING ELECTRICAL BUSINESS

EQUIPMENT

Hard Disk Drive: SKR004

Have been investigated by UL in accordance with the

Standard(s) indicated on this Certificate.

Standard(s) for Safety: See addendum for standards.

Additional Information: See the UL Online Certifications Directory at

www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

The UL Recognized Component Mark generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: May, may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

Bruce Mahrenholz, Director North American Certification Program

ULLLC

Any information and documentation involving Ut. Mark services are provided on behalf of Ut. LLC (Ut.) or any authorized licensee of Ut. For questions, please contact a local Ut. Customer Service Representative at https://licensystemple.org/sept-94.



CERTIFICATE OF COMPLIANCE

Certificate Number 20170428-E190397

Report Reference E190397-A35-UL 2017-APRIL-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Standards for Safety:

UL 60950-1, Information Technology Equipment - Safety - Part 1: General Requirements CAN/CSA C22.2 No. 60950-1-07, Information Technology Equipment - Safety - Part 1: General Requirements



Bruce Mahrenholz, Director North American Certification Program

ULLLC

Any information and documentation involving Ut. Mark services are provided on behalf of Ut. LLC (UL) or any authorized licensee of Ut. For questions, please contact a local Ut. Customer Service Representative at http://ut.com/aboutut locations/





CERTIFICATE

No. B 17 02 87435 051

Holder of Certificate: Seagate Technology International

18, 59 beon-gil, Poeun-daero Suji-gu Yongin-city, Gyeonggi-do 448-130 REPUBLIC OF KOREA

Production 64076, 61810 Facility(ies):

Certification Mark:

Product: Hard disk drive

SKR004 Model(s):

Trademark: SEAGATE

Parameters: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A Rated input: 111

Protection Class:

Tested according to: EN 60950-1:2006/A2:2013

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 077-2379216-001

Valid until: 2019-06-19

Page 1 of 1

Date, 2017-02-20

(Havard Lee)



TUV®





CERTIFICATE

No. B 061811 0165 Rev. 00

Holder of Certificate: Seagate Technology International

The Shugart, 26 Ayer Rajah Cresent

Singapore 139944 SINGAPORE

Production Facility(ies): 064076, 061810

Certification Mark:



Product: Hard disk drive

Model(s): **SKR004**

Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A Parameters: Ш

Protection class:

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

SEAGATE **Brand Name:**

EN 62368-1:2014/A11:2017 Tested according to:

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: 077-1321819-000 Valid until: 2024-12-12

Date. 2019-12-17 Park)

TUV®



Ref. Certif. No.

SG PSB-OF-00872A1

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

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

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

Ratings and principal characteristics Valeurs nominales et caractéristiques principales

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

Model/type Ref. Ref. de type

considéré conforme à la

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

Additional information (if necessary)

Information complémentaire (si nécessaire)

as shown in the Test Report Ref. No. which forms part of this certificate comme indiqué dans le Rapport d'essals numéro de référence qui constitue une partie de ce Hard disk drive

Seagate Technology International 18, 59 beon-gil, Poeun-daero Suji-gu

Yongin-city, Gyeonggi-do 448-130, REPUBLIC OF KOREA

Seagate Technology International 18, 59 beon-gil, Poeun-daero Suji-gu, Yongin-city, Gyeonggi-do 448-130, REPUBLIC OF KOREA

Seagate Technology (Wuxi) International Co., Ltd.

108 Xing Chuang Er Lu., Wuxi-Singapore Industrial Park., 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA
For further information please see attachment

Rated input: 5 V d.c., 0.55 A and 12 V d.c., 0.37 A
Protection class: III

SEAGATE

SKR004

Certificate SG PSB-OF-00872 issued 2016-10-31 is replaced by this version due to non-technical changes. See Test Report for National and Group Differences.

IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013

TÜV SÜD PSB Pte Ltd 077-2379216-001

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

Date,

2017-02-20 CBS 17 02 87435 050 (Havard Lee)

TÜV SÜD PSB Pte Ltd · 1 Science Park Drive · Singapore 118221



PSB Singapore



CB Certificate Ref. No. SG PSB-OF-00872A1

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

Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur Sungnoen Nakhon Ratchasima 30170 THAILAND

Trade Mark



Date: 2017-02-20

Signature: (Havard Lee) PSB Singapore



SG PSB-IV-01027

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

CB TEST CERTIFICATE

Name and address of the applicant

Name and address of the manufacturer

Name and address of the factory

Ratings and principal characteristics

Trade mark

Model/type Ref.

Additional information (if necessary)

A sample of the product was tested and found to be in conformity with as shown in the Test Report Ref. No. which forms part of this certificate

Hard disk drive

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent Singapore 139944 SINGAPORE

Seagate Technology International The Shugart, 26 Ayer Rajah Cresent, Singapore 139944, SINGAPORE

Seagate Technology (Thailand) Ltd. 90 Moo 15 Tambol Sungnoen Amphur, Sungnoen, Nakhon Ratchasima 30170, THAILAND

Seagate Technology (Wuxi) International Co., Ltd. 106 Xing Chuang Er Lu, Wuxi-Singapore Industrial Park, 214028 Wuxi, JiangSu, PEOPLE'S REPUBLIC OF CHINA

Rated input: 5 V d.c., 0.55 A and 12 V d.c. , 0.37 A Protection class: III

Remark: When installing, all requirements of below mentioned test standards must be fulfilled.

SEAGATE

SKR004

See Test Report for National and Group Differences.

IEC 62368-1:2018

077-2321819-000

A. C.

This CB Test Certificate is issued by the National Certification Body

CBS 061811 0166 Rev. 00 2019-12-18 Date,

(Kevin Park) TÜV SÜD PSB Pte Ltd • 1 Science Park Drive • Singapore 118221

PSB Singapore

ElectroMagnetic Compatibility

Test Objective:

Verify that the product, which is an internal computer peripheral with no direct connection to external I/O or power, meets applicable EMC emission and immunity standards when installed in a representative host system. This is done by verifying that the product, in the system, complies with the appropriate limits for FCC, CE Mark, C-tick(RCM), and VCCI. For FCC, applicable limits are found in CFR 47, Part 15, Subpart B, Class B, and for CE, C-tick(RCM), and VCCI are found in EN 55032 Class B. Immunity requirements for CE Marking are defined in EN 55024

Test Description:

Testing is performed with the drive installed in representative host system. The host system in this case, is a Notebook laptop or Desktop and the drive is exercised random write/read mode for all testing. The drive is monitored for correct operation throughout the testing.

Emission testing (performed at a 10m Chamber) and immunity testing are performed at an EMC facility, which has been certified by SAC-SINGLAS.

Emission testing consists of the following:

- 1. Conducted emissions, 150 kHz to 30 MHz, 110 Vac/60 Hz (FCC)
- 2. Conducted emissions, 150 kHz to 30 MHz, 230 Vac/50 Hz {CE, C-tick(RCM), VCCI}
- 3. Radiated emissions, 30 MHz to 1 GHz, 10-meter antenna distance
- 4. Radiated emissions, 1 GHz to 6 GHz, 3-meter antenna distance
- 5. AC power line harmonics, per EN61000-3-2: 2014
- 6. AC power line flicker, per EN61000-3-3: 2013

Immunity testing includes the following:

- 1. Electrostatic discharge per IEC 61000-4-2 (Level B)
- 2. Radiated RF field immunity per IEC 61000-4-3 and EN 50204 (Level A)
- 3. Electrical Fast Transient/Burst per IEC 61000-4-4 (Level B)
- 4. Surge Immunity per IEC 61000-4-5 (Level B)
- 5. Conducted RF Immunity per IEC 61000-4-6 (Level A)
- 6. Power Frequency H-field Immunity per IEC 61000-4-8 (Level A)
- 7. Voltage Dips and Interrupts per IEC 61000-4-11 (Level B, C)

Pass/Fail Criteria:

For immunity testing, the drive must meet different levels of performance (A, B or C) for the various RF environments to which it is exposed. These are defined as follows:

Performance Level A - no degradation in performance, no loss of data

Performance Level B - degraded performance acceptable provided that 1) no data is lost and 2) unit self-recovers without user intervention after the RF environment has been withdrawn

Performance Level C - reset acceptable, user intervention acceptable provided that unit suffers no permanent damage.

Product:

Product Name: SKR004 (V11 3D/4D)

Conclusion:

No modifications were made to pass. No Specification deviations, additions to or exclusions from were performed. Due to similarities in the drives, the test conclusions are applicable to hard disk drive.

Standard	Result	Approved to Bear CE & RCM Marks
EN 55032:2015 - Class B	Pass	
EN 61000-3-2: 2014	Pass	
EN 61000-3-3: 2013	Pass	
EN 55024: 2010	Pass	
IEC 61000-4-2: 2008	Pass	
IEC 61000-4-3: 2010	Pass	
IEC 61000-4-4: 1995	Pass	
IEC 61000-4-5: 1995	Pass	
IEC 61000-4-6: 1996	Pass	
IEC 61000-4-8: 1993	Pass	
IEC 61000-4-11: 1994	Pass	

Test Data:

EMC Immunity Test Results

Specification	Test Method	Test Conditions	Compliance	
Electrostatic Discharge	IEC 61000-4-2	4 kV Contact / HCP, VCP / 8 kV Air	Compliant	
RF Radiated Immunity	IEC-61000-4-3 EN 50204	80 - 1000 MHz, 3 V/m, 80% 1 kHz AM	Compliant	
EFT/Burst	IEC 61000-4-4	0.5 kV I/O, 1 kV AC mains	Compliant	
Surge Immunity	IEC 61000-4-5	2 kV comm. mode, 1 kV diff. mode, AC mains	Compliant	
Conducted RF Immunity	IEC 61000-4-6	150 kHz to 80 MHz, 3 Vrms, 80% 1 kHz AM, power and I/O	Compliant	
Power Frequency Magnetic Field Immunity	IEC 61000-4-8	1 Amp / meter, 3 axes, 50 Hz and 60Hz	Compliant	
Voltage Dips and Interrupts IEC 61000-4-11		0% open and short for 5 seconds, 40% for 0.1 second, 70% for 0.01 second	Compliant	



EU DECLARATION OF CONFORMITY

TYPE OF EQUIPMENT:

Hard Disc Drive SKR004 V11 3D/4D

REGULATORY MODEL: Internal Product Name: TRADE/BRAND NAME:

I. Product Safety and EMC Compliance

Seagate

A. The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012/AC: 2013

Electromagnetic compatibility of multimedia equipment --

Emission requirements.

EN 55024:2010

Information technology equipment - Immunity characteristics -

Limits and methods of measurement.

EN 61000-3-2:2014

Electromagnetic compatibility (EMC) - Part 3-2: Limits for harmonic current emissions (equipment input current <= 16 A

per phase).

EN 61000-3-3:2013

Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current

<= 16 A per phase.

B. The product meets the requirements of The Low Voltage Directive (LVD) 2014/35/EU by application of the following standard:

EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011/A2:2013 Information Technology Equipment - Safety- (Second Edition)

Part 1: General Requirements

EN 62368-1:2014/AC:2015

Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014,

Modified)

II. Product Environmental Compliance (EU/China)

A. The product(s) meets the requirements of the Directive 2011/65/EU RoHS "Recast" (RoHS 2) as amended by Directive (EU) 2015/863 and further amended by Directive 2018/739 and Directive 2018/740 and by application of the following standards:

EN 50581:2012 Technical documentation for the assessment of electrical and

electronic products with respect to the restriction of hazardous

substances.

EN 62321-6:2015

Determination of certain substances in electrotechnical products. Polybrominated biphenyls and polybrominated diphenyl ethers in

polymers by gas chromatography-mass spectrometry (GC-MS).

Management Methods for Controlling Pollution by Electronic China RoHS

Information Products, Ministry of Information Industry Order No.

39 (China RoHS)

China RoHS 2 Management Methods for the Restriction of the Use of Hazardous

Substances in electrical and Electronic Products, Ministry of Industry and Information Technology Order No. 32 effective July 1,

2016 (China RoHS 2)

JS709B Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for

Electronic Products

B. Seagate products rely on the following RoHS 2 exemptions for compliance:

6(a)-I	Lead as an alloying element in steel for machining purposes containing up to 0.35% lead by weight and in batch hot dip galvanised steel components containing up to 0.2% lead by weight
6(b)-II	Lead as an alloying element in aluminum for machining purposes up to 0.4% lead by weight
6(c)	Copper alloy up to 4% lead by weight
7(a)	Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I	Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

III. Due Diligence

A. For parts and materials in Seagate products procured from external suppliers, we rely on the representations of our suppliers regarding the presence of RoHS 2 substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of any substances regulated by RoHS 2 in such parts or materials.

B. Seagate also has internal systems in place to ensure ongoing compliance and all laws and regulations. These systems include standard operating procedures that ensure that product safety, EMC and environmental compliance requirements are followed and an internal auditing process to ensure compliance with all standard operating procedures.

Year to Begin Affixing Mark: 2016

Manufacturer's Name:

Seagate Technology, LLC

Manufacturer's Address:

10200 South De Anza Blvd.

Cupertino, California 95014-3029 U.S.A.

European Contact:

Seagate Technology International

Koolhovenlaan 1 1119 NB Schiphol-Rijk

The Netherlands

Date of Issue:

Jan 7, 2020

Signature:

Azeez Talha, Engineering Director



Supplier's Declaration of Conformity

Declaration of Conformity as a registered and responsible supplier under the Australian Communications and Media Authority (ACMA) regulatory arrangements for Regulatory Compliance Mark (RCM) and it's placement.

Responsible Supplier Name: Seagate Technology Australia Pty Ltd

Responsible Supplier Number: E806

Seagate Technology Australia Pty. Limited Level 7, 91 Phillip St PARRAMATTA NSW 2150 AUSTRALIA

Declare under our sole responsibility that the following product(s):

Hard Disk Data	Storage Drive				
Model: SKR004	1				
to which this decl	aration relates is in cor	nformity with the following standard(s):			
Title Test Regulation					
Australian/New	Australian/New Zealand Standard AS/NZS CISPR 32: 2015				
(Name of the Authorized Person) Sam Zavaglia					
(Title of the Authorized Person) Senior Field Applications Engineer					
(Date of Issue)	19 th October 2016				
(Signature)	A.				

符合性聲明書 Declaration of Conformity

视验義務人代碼	編號			
Code of the applicant	Number			
D33027	STX19050206			

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	(:台	灣希排	科技股份	有限公	司(Seag	ate Tec	hnology Ta	aiwan, Lt	d.)
Obliga	atory Appl	licant								
地址 Addre		比市村	公山區谷	夏興北路3	63 號 14	4樓				
電話 Teleph	: <u>02-</u>	2514-	2273							
商品	中(多	()	名稱:	硬式磁碟	機					
Comp	nodity Nar	me								
商品	型式 ((或型	號):	SKR004						
Comn	nodity Typ	e (M	odel)							
								01, ST8000VM 3, ST6000VX0		
符合 Standa	之檢驗 ird(s) and	標準及 version	版次:⊆	NS 13438/ Co	mplete 200	6 Class B, S	Section 5	"Marking of pr	esence" of C	NS 15663 (2013,7)
	報告編引 eport Nur		61003C	07B, ATS/	GENV/10	050/16/ya	0			
				新立德國際 nation number		有限公司	, ALS T	ECHNICHE	EM (S) PTI	E LTD
				SL2-IN-E-00)49					
		200	識及識》 arking app	列號碼: pears like this		(D330 RoH			33027
兹聲	明上述	で商品	符合商	品檢驗法	符合性	整明之差	見定,	若因違反る		所聲明之內
				責任 3	Marine Top	100				77 77 77
				L'ERROR	rms to Dec	laration of	Conformit	ty requirements	s stipulated in	the Commodity
Inspec	tion Act. l	l agree t	o take any	legal obligation	ons should	iolations a	gainst the	Declaration of	Conformity	occur.
報驗	義務人	:	台灣:	希捷科技用	处份有限	公司儿	ai Chu	n Cheong	(簽章)	
		-	The Bo	ard Chairma	an of Sea	gate Tech	nology T	Гаiwan		
Obliga	itory Appl	icant					0,			(Signature)
中	華	民	國	108	年	05	月	02	日	
	DATE				(ye	ar)		(month)		(day)

방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC			
기자재명칭(제품명칭) Equipment Name	HARD DISK DRIVE			
기본모델명 Basic Model Number	SKR004			
파생모델명 Senies Model Number	ST8000DM004, ST8000AS0003, ST5000DM003, ST6000VX002, ST6000VN002, ST6000VX001, ST6000VM000, ST6000VN001, ST6000DM003, ST8000VX003, ST8000VN003, ST8000VX002, ST8000VM004, ST8000VN002			
등록번호 Registration No.	MSIP-REM-STX-SKR004			
제조자/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 중국, 태국			
등록연월일 Date of Registration	2016-10-14			
기타 Others				

위 기자재는 「전파법」제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act.

2019년(Year) 03월(Month) 28일(Day)

국립전파연구원정

Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시"를 부착하여 유통하여야 합니다.

위반시 과태료 처분 및 등록이 취소될 수 있습니다.

Page **16** of **17**



Declaration of Conformity

Standards to which conformity is declared:

FCC Part 15B 47 CFR FCC Part 15B (Class B)

Information Technology Equipment (ITE) - Limits ICES-003 Issue 6, Class B

and methods of measurement

Manufacturer Name: Seagate Technology, Incorporated Manufacturer Address: 10200 South DeAnza Boulevard (And Importer) Cupertino California 95014

Type of Equipment: Hard Disc Data Storage Drive

Product Name: SKR004 (V11 3D / 4D)

Seagate Technology, Incorporated hereby declares that the equipment specified above conforms with the protection requirements of the above named Directive(s) and Standards.

Location: Seagate Singapore Design Centre, Singapore

(Signature)

Certificate Date: 29 Mar 2019 Hui Wei Qiang (Full Printed Name)

> **Engineer** (position)