

Regulatory and certification documents package

Regulatory Model Number: STA004

Series Name(s): Nytro 5000 SSD (NVMe PCIe Gen 3x4)

Internal Name: Jaguar U.2

Date	<u>Comments:</u>
1-08-2018	Package generated.
6-13-2019	Replaced TUV certs with consolidated certs.
7-10-2019	Updated CE Mark DoC with new RoHS declaration
7-26-2019	Added TUV Consolidated certificates

Contents:

- Australia/New Zealand RCM mark SDoC (Supplier Declaration of Conformity)
- Australia/New Zealand CoT (Certificate of Test)
- Canada ICES CoT (Certificate of Test)
- CB Certificate
- CE DoC (Declaration of Conformity)
- CE_Mark CoT (Certificate of Test)
- Korea RRL Certificate
- Korea CoT (Certificate of Test)
- UL/cUL safety
- TUV safety
- Taiwan BSMI certificate
- Taiwan CoT (Certificate of Test)



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):

Seagate Solid State Drive

Model: STA004

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

Title			Test Regulation	
Australian/New Zealand Standard		<u></u>	AS/NZS CISPR 32: 2015	
(Name of the Aut	horized Person)		Sam Zavaglia	
(Title of the Authorized Person)		Seni	or Field Applications Engineer	
(Date of Issue)	21 st November 2	2017		
(Signature)	AS A	-		



Seagate Technology LLC Model STA004

Report # SEAG0138



NVLAP Lab Code: 200881-0





Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Emissions

Standards

Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
FCC 15.107:2017 Class B	
FCC 15.109(g):2017 Class B	ANSI C63.4:2014
FCC 15.109:2017 Class B	
VCCI:2015-04 Class B	VCCI:2015-04
EN 61000-3-2:2014	IEC 61000-3-2:2014
EN 61000-3-3:2013	IEC 61000-3-3:2013

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

M att

Matt Nuernberg, Operations Manager



Seagate Technology LLC Model STA004

Report # SEAG0138



NVLAP Lab Code: 200881-0





Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Emissions

Standards	
Specification	Method
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015
EN 55032:2012/AC:2013 Class B	CISPR 32:2015
FCC 15.107:2017 Class B	
FCC 15.109(g):2017 Class B	ANSI C63.4:2014
FCC 15.109:2017 Class B	
VCCI:2015-04 Class B	VCCI:2015-04
EN 61000-3-2:2014	IEC 61000-3-2:2014
EN 61000-3-3:2013	IEC 61000-3-3:2013

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

M att

Matt Nuernberg, Operations Manager





DE 3 - 502642

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	Disk drives
Name and address of the applicant	Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863, USA
Name and address of the manufacturer	Seagate Technology LLC 1280 Disc Drive, Shakopee, MN 55379-1863, USA
Name and address of the factory	BENCHMARK ELECTRONICS (THAILAND) PCL 94 MOO 1, HI-TECH INDUSTRIAL ESTATE, BANLANE, BANG PA-IN, AYUDHAYA 13160, THAILAND For further information please see attachment
Ratings and principal characteristics	Rated Input Voltage:+12VdcRated Frequency:dcRated Input Current:1.0 AProtection Class:IIIDegree of Protection:IPX0
Trade mark (if any)	Seagate
Customer's Testing Facility (CTF) Stage used	CTF Stage 2
Model/type Ref.	STA004
Additional information (if necessary)	
A sample of the product was tested and found to be in conformity with	IEC 60950-1:2005 IEC 60950-1:2005/AMD1:2009 IEC 60950-1:2005/AMD2:2013
as shown in the Test Report Ref. No.	092-72133155-000

Date,

03.06

2017-12-04 CB 17 11 41780 651

William P. Wellez

William P. Weller



Product Service

TÜV SÜD Product Service GmbH · Certification Body · Ridlerstrasse 65 · D-80339 München



DE 3 - 502642

Name and address of the manufacturer <i>Nom et adresse du fabricant</i>	Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379 USA	(41780)
Name and address of the factory Nom et adresse de l'usine	Benchmark Electronics (Thailand) PCL 94 MOO 1 HI-Tech Industrial Estate, Banlane, Bang Pa-In, Ayudhaya 13160 Thailand	(71141)
	Kaifa Technology Malayasia Sdn Bhd No. 4 & 6, Jalan Istimewa 2, Taman Perindustrian Cemerlang Malaysia	(96907)

William P. Weller



Product Service

Date, 2017-12-04 CB 17 11 41780 651

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CB-2 03.06



Model Differences:

Regulatory Model Number: STA004:

1.92TB, PCI-e Gen 3x4, NVMe Interface, 3D cMLC NAND Flash Memory, 512E format

* This product is offered in multiple capacities and endurance variations. The model tested is not the highest capacity, but does have the maximum NAND flash memory modules and higher endurance feature. Higher endurance feature allows for more NAND cells to be utilized during test instead of being kept in reserve. Because of how it is used it will therefore produce the highest current draw during testing.

Conditions of Acceptability:

- 1. Disc drives are to be supplied by a reliably SELV power supply.
- 2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
- 3. In this particular test the manual states a maximum ambient of 70C that is determined by the SMART data. Since I have no way to read SMART data, we will use a 55C ambient. Testing is complete when all IC temperatures have stabilized. Drive chosen for test is the highest capacity drive.
- External fan was part of test fixture to maintain recommended case temperature during testing. Additional cooling is recommended as part of end use configuration to maintain recommended operating case temperature at specific airflow.

William P. Welles



Date, 2017-12-04 CB 17 11 41780 651

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DE 3 - 502645

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	Disk drives	
Name and address of the applicant	Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863, U	ISA
Name and address of the manufacturer	Seagate Technology LLC 1280 Disc Drive, Shakopee, M	IN 55379-1863, USA
Name and address of the factory	BENCHMARK ELECTRONICS 94 MOO 1, HI-TECH INDUST PA-IN, AYUDHAYA 13160, TH For further information please	S (THAILAND) PCL RIAL ESTATE, BANLANE, BANG HAILAND see attachment
Ratings and principal characteristics	Rated Input Voltage: Rated Frequency: Rated Input Current: Protection Class: Degree of Protection:	+12Vdc dc 1.0 A III IPX0
Trade mark (if any)	Seagate	
Customer's Testing Facility (CTF) Stage used	CTF Stage 2	
Model/type Ref.	STA004	
Additional information (if necessary)		
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014	
as shown in the Test Report Ref. No. which forms part of this certificate	092-72133211-000	
This CB Test Certificate is issued by the National Ce Certificat d'essai OC est établi par l'Organisme	Certification Body e National de Certification	

Date,

2017-12-05 CB 17 11 41780 653

William P. Wellez

William P. Weller

TUV SUD

Product Service

TÜV SÜD Product Service GmbH · Certification Body · Ridlerstrasse 65 · D-80339 München



Name and address of the Seagate Technology LLC (41780)manufacturer 1280 Disc Drive Nom et adresse du fabricant Shakopee, MN 55379 USA Name and address of the factory Benchmark Electronics (Thailand) PCL (71141)Nom et adresse de l'usine 94 MOO 1 Hi-Tech Industrial Estate, Banlane, Bang Pa-In, Ayudhaya 13160 Thailand Kaifa Technology Malayasia Sdn Bhd (96907) No. 4 & 6, Jalan Istimewa 2, Taman Perindustrian Cemerlang Malaysia

William P. Welles

Date, 2017-12-05 CB 17 12 41780 653



Product Service

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DE 3 - 502645

Model Differences:

Regulatory Model Number: STA004:

1.92TB, PCI-e Gen 3x4, NVMe Interface, 3D cMLC NAND Flash Memory, 512E format

* This product is offered in multiple capacities and endurance variations. The model tested is not the highest capacity, but does have the maximum NAND flash memory modules and higher endurance feature. Higher endurance feature allows for more NAND cells to be utilized during test instead of being kept in reserve. Because of how it is used it will therefore produce the highest current draw during testing.

Conditions of Acceptability:

- 1. Disc drives are to be supplied by a reliably SELV power supply.
- Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
- 3. In this particular test the manual states a maximum ambient of 70C that is determined by the SMART data. Since I have no way to read SMART data, we will use a 55C ambient. Testing is complete when all IC temperatures have stabilized. Drive chosen for test is the highest capacity drive.
- External fan was part of test fixture to maintain recommended case temperature during testing. Additional cooling is recommended as part of end use configuration to maintain recommended operating case temperature at specific airflow.

Millenn P. Milles

Date, 2017-12-05 CB 17 12 41780 653



Product Service

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EU Declaration of Conformity

Product Safety and EMC Compliance

The product(s) meets the requirements of The Electromagnetic Compatibility (EMC) Directive 2014/30/EU by application of the following standards:

EN 55032:2012	Electromagnetic compatibility of multimedia equipment — Emission requirements – class B.
EN 55024:2010	Information Technology Equipment – Immunity Characteristics – Limits and
	Methods of Measurement
EN 61000-3-2:2014	Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3:2013	Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Low-Voltage
	Supply Systems for Equipment with Rated Current ≤ 16 Amps Per Phase

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

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

Product Environmental Compliance, EU/China RoHS Declaration of Conformity

Conformity with Harmonized Standards/Technical Specifications:

- 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 EN 50581:2012
- 2. Management Methods for Controlling Pollution by Electronic Information Products, Ministry of Information Industry Order No. 39 (China RoHS)
- 3. 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)
- 4. Joint JEDEC/ECA Standard, Definition of "Low-Halogen" for Electronic Products, JS709B

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 galvanized 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
6с	Copper alloy up to 0.4% lead by weight
7a	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

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

Due Diligence

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.

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: 2017

Manufacturer's Name:	Seagate Technology, LLC
Manufacturer's Address:	10200 South De Anza Blvd.
(And Importer)	Cupertino, California 95014-3029 U.S.A
European Contact:	Director of Operations Seagate Technology, International Koolhovenlaan 1 1119 NB Schiphol - Rijk The Netherlands
Type of Equipment:	Solid State Drive
Product Name: (Internal)	Nytro 5000 (Jaguar U.2)
Regulatory Model Number:	STA004
Seagate Models:	XP800HE10002 XP800HE10012 XP1600HE10002 XP1600HE10012 XP3200HE10002 XP3200HE10012 XP960LE10002 XP960LE10012 XP1920LE10012 XP1920LE10012 XP3840LE10002

This product or products are in conformity with the relevant Union harmonization legislation. This declaration of conformity is issued under the sole responsibility of Seagate Technology LLC.

XP3840LE10012

July 9, 2019 | 14:38:46 PDT

DocuSigned by:
Matt Brown
(Signature) B4C5

Matthew C. Brown Vice President Operations and Technology



Seagate Technology LLC Model STA004

Report # SEAG0138



NVLAP Lab Code: 200881-0





Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Emissions

Standards				
Specification	Method			
AS/NZS CISPR 32:2015 Class B	AS/NZS CISPR 32:2015			
EN 55032:2012/AC:2013 Class B	CISPR 32:2015			
FCC 15.107:2017 Class B				
FCC 15.109(g):2017 Class B	ANSI C63.4:2014			
FCC 15.109:2017 Class B				
VCCI:2015-04 Class B	VCCI:2015-04			
EN 61000-3-2:2014	IEC 61000-3-2:2014			
EN 61000-3-3:2013	IEC 61000-3-3:2013			

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	
Harmonic Current Emissions	Yes	Pass	
Voltage Fluctuations and Flicker	Yes	Pass	

Deviations From Test Standards

None

Approved By:

M

Matt Nuernberg, Operations Manager



Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Immunity

Standards

Specification	Method
	IEC 61000-4-2:2008
	IEC 61000-4-3:2010
	IEC 61000-4-4:2012
EN 55024.2010	IEC 61000-4-5:2014
	IEC 61000-4-6:2013
	IEC 61000-4-8:2009
	IEC 61000-4-11:2004

Results

	Performance Criteria			
Test Description	Applied	Standard Specified	Observed Criteria	Comments
Electrostatic Discharge (ESD)	Yes	В	А	
Radiated Immunity	Yes	A	A	
Radiated Immunity - Spot Frequencies	Yes	А	А	
Electrical Fast Transients and Bursts (EFT)	Yes	В	А	
Surge	Yes	В	A	
Conducted Immunity	Yes	A	A	
Magnetic Field Immunity	Yes	A	A	
Voltage Interruptions	Yes	С	С	
Voltage Dips	Yes	B/C	A/A	

Details on the application of the performance criteria, as well as any manufacturer provided performance criteria or acceptable degradation of performance, are all contained within the report.

Deviations From Test Standards

None

Approved By:

m att

Matt Nuernberg, Operations Manager

0379-61B7-358C-7886

방송통신기자재등의 적합등록 필증

Registration of Broadcasting and Communication Equipments

상호 또는 성명 Trade Name or Registrant	SEAGATE TECHNOLOGY LLC
기자재명칭(제품명칭) Equipment Name	Solid State Drive
기본모델명 Basic Model Number	STA004
파생모델명 Series Model Number	XP3200HE10002, XP3840LE10012, XP960LE10012, XP800HE10012, XP1920LE10002, XP1920LE10012, XP3200HE10012, XP1600HE10012, XP3840LE10002, XP960LE10002, XP1600HE10002, XP800HE10002
등록번호 Registration No.	MSIP-REM-STX-STA004
제조자/제조(조립)국가 Manufacturer/Country of Origin	SEAGATE TECHNOLOGY LLC / 태국, 말레이지아
등록연월일 Date of Registration	2017-11-14
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.

2017년(Year) 11월(Month) 14일(Date)



Director General of National Radio Research Agency

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



Report No. SEAG0138.1

NRRA Notice No. 2015-110 (2015.12.03) Test Method for Electromagnetic Compatibility

Applicant Information	Applicant:	Applicant: Seagate Technology LLC		
	Address:	1280 Disc Drive Shakopee, MN 55379		
	Contact Name:	Curt Propson		
Product Information	Equipment Name:	Solid State Drive		
	Model Name:	STA0004		
	KCC ID Number	MSIP-REM-STX-STA	004	
	Manufacturer:	Seagate Technology, LLC		
	Manufacturer Address:	1280 Disc Drive Shakopee, MN 55379		
	Origin Country:	Thailand		
Date(s) of testing		10/31/2017, 11/1/2017, 11/2/2017		
Equipment Class		Class A	Class B	
Test Results		⊠ PASS	FAIL	
Lab Performing the Tests	b Performing the Element Materials Technology Brooklyn Park Lab 22975 NW Evergreen Parkway, Suite 400 Hillsboro, OR 97124 USA 503-844-4066 888-364-2378			

william Hoffa	Matt Mus
Test Technician	Operations Manager
William Hoffa	Matt Nuernberg



Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Emissions

Standards	
Specification	Method
KN 32 Class B	KN 32

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager



Last Date of Test: November 2, 2017 Seagate Technology LLC Model: STA004

Immunity

Standards			
Specification	Method		
	KN 61000-4-2		
	KN 61000-4-3		
	KN 61000-4-4		
	KN 61000-4-5		
	KN 61000-4-6		
	KN 61000-4-8		
	KN 61000-4-11		

Results

	F	Performance C	riteria	
Test Description	Applied	Standard Specified	Observed Criteria	Comments
Electrostatic Discharge (ESD)	Yes	В	А	
Radiated Immunity	Yes	A	A	
Electrical Fast Transients and Bursts (EFT)	Yes	В	A	
Surge	Yes	В	А	
Conducted Immunity	Yes	A	А	
Magnetic Field Immunity	Yes	A	А	
Voltage Interruptions	Yes	С	С	
Voltage Dips	Yes	B/C	A/A	

Details on the application of the performance criteria, as well as any manufacturer provided performance criteria or acceptable degradation of performance, are all contained within the report.

Deviations From Test Standards

None

Approved By:

Matt Nuernberg, Operations Manager

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20180418- E145123 E145123-A52-UL 2018-APRIL-18

Issued to:

SEAGATE TECHNOLOGY L L C 1280 DISC DR SHAKOPEE MN 55379-1863

This is to certify that representative samples of

COMPONENT - Information Technology Equipment Including Electrical Business Equipment; COMPONENT -AUDIO/VIDEO, INFORMATION AND COMMUNICATION TECHNOLOGY EQUIPMENT Solid State Drive, STA004

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: Additional Information: See Addendum Page See the UL Online Certifications Directory at <u>www.ul.com/database</u> 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: **N**, 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.

Barnally

Bruce Mahrenholz, Director North American Certification Program



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 http://ul.com/aboutul/locations/

CERTIFICATE OF COMPLIANCE

Certificate Number Report Reference Issue Date 20180418- E145123 E145123-A52-UL 2018-APRIL-18

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 60950-1and CAN/CSA C22.2 No. 60950-1-07 - Information Technology Equipment - Safety - Part 1: General Requirements, UL 62368-1 and CSA-C22.2 No. 62368-1 - Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements

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Bruce Mahrenholz, Director North American Certification Program



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 http://ul.com/aboutul/locations/

A4107.17





CERTIFICATE

No. B 041780 0680 Rev. 00

Holder of Certificate:

Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863

Certification Mark:



USA

Product:

Disk drives

Disc Drive (Information Technology Equipment)

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.:

092-72144112-000

Valid until:

2020-12-20

Date,

2019-04-25

Adrian Rabago Valenzuela)

CERTIFICATE

No. B 041780 0680 Rev. 00

Model(s):

Regulatory Models (Seagate 1200.2 SSD Family):

2.5 inch models: STR004, STR005

1.8 inch model: STR006

Regulatory Models (Seagate 1200 SSD Drive Family):

2.5 inch models: ST800FM0013, ST800FM0023, ST800FM0163, ST800FM0153, ST800FM0033, ST400FM0013, ST400FM0033, ST400FM0223, ST400FM0213, ST200FM0013, ST200FM0033, ST800FM0043, ST800FM0053, ST800FM0063, ST400FM0053, ST400FM0073, ST200FM0053, ST200FM0073

1.8 inch models:

ST400FM0023, ST400FM0043, ST200FM0023, ST200FM0043, ST100FM0023, ST100FM0043, ST400FM0063, ST400FM0083, ST200FM0063, ST200FM0093, ST100FM0063, ST100FM0093, ST100FM0103, ST200FM0103, ST400FM0103, ST100FM0113, ST200FM0113, ST400FM0113, ST100FM0123, ST200FM0123, ST400FM0123

Regulatory Models (SSD Family):

STÃ003, STA004, STA010, STR003, STR011, STL001, STR010

Regulatory Models (Seagate Jofa SSD Family): STA008, STA009

A4 / 07.17

TUV

CERTIFICATE

No. B 041780 0680 Rev. 00

PARAMETERS

Regulatory Models (Seagate 1200.2 SSD Family): Rated Input Voltage: 2.5 inch models: 5 VDC / 12 VDC 1.8 inch model: 3.3 VDC / 5 VDC Regulatory Models (Seagate 1200 SSD Drive Family): 2.5 inch models: 5 VDC / 12 VDC 1.8 inch models: 3.3 VDC / 5 VDC Regulatory Models (SSD Family): STA003: 3.3 VDC STA004: 12 VDC STA010 240 GB and 480 GB: 5 VDC STA010 960 GB, 1920 GB, 3840 GB: 5 VDC and 12 VDC STR003: 12 VDC STR011: 3.3 VDC STL001: 3.3 VDC STR010: 12 VDC Regulatory Models (Seagate Jofa SSD Family): STA008: 5 VDC / 12 VDC STA009: 5 VDC / 12 VDC Regulatory Models (Seagate 1200.2 SSD Family): Rated Input Current: 2.5 inch models: 0.95 A / 0.60 A (STR005), 1.0 A / 0.95 A (STR004) 1.8 inch model: 1.65 A / 1.50 A Regulatory Models (Seagate 1200 SSD Drive Family): 2.5 inch models: 0.7 A / 0.4 A 1.8 inch models: 0.7 A / 0.85 A Regulatory Models (SSD Family): STA003: 2.50 A STA004 Solid State Drive: 1.0 A STA010 Solid State Drive 240 GB and 480 GB: 0.80 A STA010 Solid State Drive 960 GB, 1920 GB, 3840 GB: 1.00 A and 0.05 A STR003: 1.04 A STR011: 2.5 A STL001: 2.5 A STR010: 1.04 A Regulatory Models (Seagate Jofa SSD Family): STA008: 0.80 A / 0.30 A STA009: 0.80 A / 0.45 A Protection Class: Class III Degree of Protection: IPX0 5°C to 60°C for Seagate 1200.2 and Seagate 1200 SSD Families Temperature: 0°C to 70°C for STA003, STA004, STA010, STR003, STR011, STL001, STR010, STA(**STA009** Altitude of Operation: Up to 3048 m

A.4 / 07.17

CERTIFICATE No. B 041780 0680 Rev. 00

Conditions of Acceptability:

- 1. Disc drives are to be supplied by a reliable SELV power supply.
- 2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
- 3. Proper air flow should be considered in the end product to maintain maximum case temperature of 60°C for Seagate 1200.2 and Seagate 1200 SSD Families.
- 4. Proper air flow should be considered in the end product to maintain maximum case temperature of 70°C for STA003, STA004, STA010, STR003, STR011, STL001, STR010, STA008, STA009 models.

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

Production

041780, 071141, 039917, 096907

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CERTIFICATE No. B 041780 0679 Rev. 00

Holder of Certificate:

Seagate Technology LLC 1280 Disc Drive Shakopee, MN 55379-1863 USA

Certification Mark:



Product:

Disk drives

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.:

092-72144455-000

Valid until:

2024-02-21

Date,

2019-05-09

(Adrian Rabago Valenzuela)

10

A4 / 07.17



CERTIFICATE

No. B 041780 0679 Rev. 00

Model(s):

Regulatory Models: STR004, STR005, STR006, ST800FM0013, ST800FM0043, ST800FM0023, ST800FM0163, ST800FM0153, ST800FM0073, ST800FM0033, ST800FM0063, ST400FM0013, ST400FM0053, ST400FM0033, ST400FM0223, ST400FM0213, ST400FM0103, ST200FM0013, ST200FM0093, ST200FM0123, ST200FM0103, ST200FM0113, ST200FM0093, ST200FM0033, ST200FM0103, ST100FM0113, ST200FM0093, ST200FM0123, ST100FM0103, ST100FM0113, ST100FM0093, ST100FM0123, ST200FM0103, ST200FM0023, ST400FM0063, ST400FM0043, ST200FM0083, ST200FM0023, ST200FM0063, ST200FM0043, ST200FM0083, ST100FM0023, ST100FM0063, ST200FM0043, ST200FM0083, ST100FM0023, ST100FM0063, ST100FM0043, ST100FM0083, ST4003, ST4004, ST4008, ST4009, ST4010, ST100FM0083, ST4003, ST4004, ST4008, ST4009, ST4010, STL001, STR010, STR003, STR011

Parameters:

Rated Input Voltage: Rated Frequency: Rated Input Current: Protection Class: Degree of Protection: See below for inputs to specific models See below for inputs to specific models See below for inputs to specific models III IPX0

Regulatory Models (1200.2 SSD family): STR004: +5Vdc, 1.0A / +12Vdc, 0.95A STR005: +5Vdc, 0.95A / +12Vdc, 0.60A STR006: +3.3Vdc, 1.65A / +5Vdc, 1.50A

Regulatory Models (1200 SSD family), model variations: 1.8 inch models: +3.3Vdc, 0.70A / +5Vdc, 0.85A 2.5 inch models: +5Vdc, 0.70A / +12Vdc, 0.40A



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No. B 041780 0679 Rev. 00

Regulatory Models (SSD Series):

STA003: +3.3Vdc, 2.5 A STA004: +12Vdc, 1.0 A STA008: +5Vdc, 0.80A / +12Vdc, 0.30A STA009: +5Vdc, 0.80A / +12Vdc, 0.45A STA010: +5Vdc, 0.80A (240, 480 GB), +5Vdc, 1.0A; +12Vdc, 0.05A (960, 1,920, 3,840 GB) STL001: +3.3Vdc, 2.5 A STR010: +12Vdc, 1.04 A

Regulatory Models:

STR003: +12Vdc, 1.04A STR011: +3.3Vdc, 2.50A

Conditions of Acceptability:

- 1. Solid State Devices are to be supplied by a reliably SELV power supply.
- 2. Suitable enclosure (fire/mechanical) to be provided/evaluated when disc drive is installed in the end use product.
- 3. Solid State Devices were evaluated with a fan supplying 41 CFM air flow. Proper air flow should be considered in the end use product to maintain maximum case temperature of 60°C.

Product Service



CERTIFICATE No. B 041780 0679 Rev. 00

Model #	Capacity/GB	Interface	Disc / Heads	Cache (GB)	Part Number	SED Enabled	FIPS Label	Board Type
2.5" Managed Life						1		
ST800FM0013	800	SAS	N/A	8	1D3272-XXX	No	No	MACALLAN
ST800FM0023	800	SAS	N/A	8	1EX212-XXX	Yes	No	MACALLAN
ST800FM0163	800	SAS	N/A	8	1VP282-XXX	No	No	MACALLAN
ST800FM0153	800	SAS	N/A	8	1V1282-XXX	Yes	No	MACALLAN
ST800FM0033	800	SAS	N/A	8	1EX222-XXX	Yes	Yes	MACALLAN
ST400FM0013	400	SAS	N/A	4	1D3262-XXX	No	No	DALWHINNIE
ST400FM0033	400	SAS	N/A	4	1EW212-XXX	Yes	No	DALWHINNIE
ST400FM0223	400	SAS	N/A	4	1VP272-XXX	No	No	DALWHINNIE
ST400FM0213	400	SAS	N/A	4	1V1272-XXX	Yes	No	DALWHINNIE
ST200FM0013	200	SAS	N/A	4	1D3252-XXX	No	No	DALWHINNIE
ST200FM0033	200	SAS	N/A	4	1EV212-XXX	Yes	No	DALWHINNIE
2.5" Usage Based								
ST800FM0043	800	SAS	N/A	8	1GD272-XXX	No	No	MACALLAN
ST800FM0073	800	SAS	N/A	8	1GM272-XXX	Yes	No	MACALLAN
ST800FM0063	800	SAS	N/A	8	1GP272-XXX	Yes	Yes	MACALLAN
ST400FM0053	400	SAS	N/A	4	1GD262-XXX	No	No	DALWHINNIE
ST400FM0073	400	SAS	N/A	4	1GM262-XXX	Yes	No	DALWHINNIE
ST200EM0053	200	SAS	N/A	4	1GD252-XXX	No	No	DALWHINNIE
ST200EM0073	200	SAS	N/A	4	1GM252-XXX	Yes	No	DALWHINNIE
1.8" Managed Life	200	<u> </u>	147.4					
ST400FM0023	400	SAS	N/A	4	1D4262-XXX	No	No	TALISKER
ST400FM0043	400	SAS	N/A	4	1F1212-XXX	Yes	No	TALISKER
ST200EM0023	200	SAS	N/A	4	1D4252-XXX	No	No	TALISKER
ST200EM0043	200	SAS	N/A	4	1E7212-XXX	Yes	No	TALISKER
ST100FM0023	100	SAS	N/A	4	1D4242-XXX	No	No	TALISKER
ST100FM0043	100	SAS	N/A	4	1EY212-XXX	No	No	TALISKER
1.8" Usage Based								
ST400FM0063	400	SAS	N/A	4	1GE262-XXX	No	No	TALISKER
ST400FM0083	400	SAS	N/A	4	1GN262-XXX	Yes	No	TALISKER
ST200FM0063	200	SAS	N/A	4	1GE252-XXX	No	No	TALISKER
ST200FM0083	200	SAS	N/A	4	1GN252-XXX	Yes	No	TALISKER
ST100EM0063	100	SAS	N/A	4	1GE242-XXX	No	No	TALISKER
ST100EM0083	100	SAS	N/A	4	1GN242-XXX	No	No	TALISKER
HE lisage Based								
ST100EM0003	100	242	NIA	4	161242-111	No	No	DALWHINNIE
ST100FM0093	200	CAC CAC	NUA	4	167252.777	No	No	DALWHINNE
ST200FM0093	200	SAG	NUA	- 4	100252-000	No	No	MACALLAN
S1400FN10095	400	5A5	IN/A	0	19/202-22/	Nee	No	
ST100FM0103	100	SAS	N/A	4	1GY242-XXX	Yes	No	DALWHINNE
ST200FM0103	200	SAS	N/A	4	1GY252-XXX	Ves	No	DALWHINNIE
ST400FM0103	400	SAS	N/A	8	1GY262-XXX	100		MAGALLAN
HE Managed Life						No	No	
ST100FM0113	100	SAS	N/A	4	1GZ242-XXX	No.	NU	DALWHINNIE
ST200FM0113	200	SAS	N/A	4	1GZ252-XXX	NO	NO	DALWHINNIE
ST400FM0113	400	SAS	N/A	8	1GZ262-XXX	No	NO	MACALLAN
ST100FM0123	100	SAS	N/A	4	1H1242-XXX	Yes	No	DALWHINNIE
ST200FM0123	200	SAS	N/A	4	1H1252-XXX	Yes	No	DALWHINNIE
ST400EM0123	400	SAS	N/A	8	1H1262-XXX	Yes	No	MACALLAN

Tested according to:

EN 62368-1:2014/A11:2017

Production Facility(ies): 041780, 071141, 096907, 039917

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Standard	(s) and version							
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Seagate Technology LLC

STA004 XP800HE10002, XP800HE10012, XP1600HE10002, XP1600HE10012 XP3200HE10002, XP3200HE10012, XP960LE10002, XP960LE10012 XP1920LE10002, XP1920LE10012, XP3840LE10002, XP3840LE10012

Report # SEAG0138.2







Last Date of Test: November 1, 2017 Seagate Technology LLC Model: STA004

Emissions

Standards	
Specification	Method
CNS 13438:2006 (Complete) Class B	CNS 13438:2006 (Complete)

Results

Test Description	Applied	Results	Comments
Radiated Emissions	Yes	Pass	
Radiated Emissions High Frequency	Yes	Pass	
Conducted Emissions	Yes	Pass	
Telecom Conducted Emissions	Yes	Pass	

Deviations From Test Standards

None

Approved By:

W

Matt Nuernberg, Operations Manager