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TEST REPORT

COMMISSION REGULATION (EC) No 1275/2008, (EC) No 801/2013

implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment

Report Number.

Date of issue...... Jan. 26, 2022

Total number of pages...... 12

Applicant's name Nebra Ltd

Address: Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge

Wells, East Sussex, TN3 9BJ

Test specification:

Standard (EC) No 1275/2008, (EC) No 801/2013

Test method.....: EN 50564: 2011

Test procedure Test Report

Non-standard test method: N/A

Test Report Form No...... ERP_1275_2008_EC_A

Test Report Form(s) Originator: JYTSZ

Master TRF...... Dated 2020-11-11

General disclaimer:

The test results presented in this report relate only to the object tested.

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The authenticity of this Test Report and its contents can be verified by Jianyan Testing Group Shenzhen Co., Ltd., responsible for this Test Report.

Test item description Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot ROCK Pi 4 Version

Trade Mark N/A

SUNSOAR TECH CO., LIMITED Manufacturer

Address 4/F, Block E, Fengze Building, Huafeng No.2 Industrial Park,

Hangkong Road, XiXiang Town, BaoAn District, Shenzhen, China

NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868, Model/Type reference.....

> NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2, NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3, NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-

470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3

Ratings Input: 12V---, 2.5A





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Testing procedure and testing location:

Testing Laboratory...... Jianyan Testing Group Shenzhen Co., Ltd.

Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen,

Guangdong, People's Republic of China.

Prepare by (name + signature):

Reviewed by (name + signature) ...:

Approved by (name + signature):

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were tested and found to comply with the requirements of:

- (EC) No 1725/2008
- (EC) No 801/2013
- EN 50564: 2011

Testing location:

Jianyan Testing Group Shenzhen Co., Ltd.

No. 101, Building 8, Innovation Wisdom Port, No. 155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

The sample(s) tested complies with the requirements of COMMISSION REGULATION (EC) No 1275/2008.

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Measurements of power of 0.50 W or greater was made with an uncertainty of less than or equal to 2 % at the 95 % confidence level.

Measurements of power of less than 0.50 W was made with an uncertainty of less than or equal to 0.01 W at the 95 % confidence level.

Copy of marking plate

The artwork below may be only a draft. Until approval by National Certification Bodies and they shall not be affixed to products.

NEBRA Helium Hotspot Model: NEBHNT-HHRK4-868 ETH: 2E:60:50:00:FF:EE NSER: aabbccddeeff0011 SER: 34996b0ff093000d







Nebra LTD, UK Co No 06732600 Made in P.R.C





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Tost item particulars			
Test item particulars			
Product category	Nebra Indoor LoRa Gateway ROCK Pi 4 Version		
Power supply Connects to:	☐ AC Mains☑ External adapter☐ Others:		
Availability of Standby mode	⊠ Yes □ No		
Availability of Networked standby	⊠ Yes □ No		
Availability of off mode	☐ Yes ⊠ No		
Availability of display function in standby-mode:	☐ Yes ⊠ No		
Availability of any condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode when the equipment is connected to the mains power source	☐ Yes ⊠ No		
Availability of power management function	☐ Yes ⊠ No		
Possible test case verdicts:			
- test case does not apply to the test object:	N/A		
- test object does meet the requirement:	P (Pass)		
- test object does not meet the requirement:	F (Fail)		
Testing:			
Date of receipt of test item	Jan. 07, 2022		
Date(s) of performance of tests	Jan. 10, 2022 to Jan. 11, 2022		
General remarks:			
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the			
Throughout this report a ☐ comma / ☒ point is u	sed as the decimal separator.		
According to the EU decision 768/2008/EC and Germ address of manufacturer (an EU-based importer or au based in EU) shall be affixed on the product or, where document accompanying the product before the product	thorized representative if the manufacturer is not a that is not possible, on its packaging or in a		
Name and address of factory (ies):			
General product information:			
The Nebra Indoor LoRa Gateway ROCK Pi 4 Version			
The external power adapter for model R241-1202500I complies with COMMISSION REGULATION (EU) 2019/1782. Relevant ecodesign requirements were not considered in this report.			





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function. When equipment is not providing a main





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lause	Requirement + Test	Result - Remark	Verdict
	function, and other energy-using product(s) are not dependent on its functions, the power management function shall switch equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into a condition having networked standby.		
	In a condition providing networked standby, the power management function may switch equipment automatically into standby mode or off mode or another condition which does not exceed the applicable power consumption requirements for standby and/or off mode.		
	The power management function, or a similar function, shall be available for all network ports of the networked equipment.		
	The power management function, or a similar function, shall be activated, unless all network ports are deactivated. In that latter case the power management function, or a similar function, shall be activated if any of the network ports is activated.		
	The default period of time after which the power management function, or a similar function, switches the equipment automatically into a condition providing networked standby shall not exceed 20 minutes.		
3(c)	Networked equipment that has one or more standby modes shall comply with the requirements for these standby mode(s) when all network ports are deactivated.		Р
3(d)	Networked equipment other than HiNA equipment shall comply with the provisions under 2(d) when all network ports are deactivated.		Р
3(e)	Power consumption in a condition providing networked	standby:	Р
	The power consumption of HiNA equipment or equipment with HiNA functionality in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function shall not exceed 12W.		N/A
	The power consumption of other networked equipment in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 6W.		N/A





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COMMISS	SION REGULATION (EC) No 1275/2008 ANNEX II, (EC)	No 801/2013 ecodesign requ	uirements
Clause	Requirement + Test	Result - Remark	Verdict
	The power consumption limits as stipulated in point (e) shall not apply to:		N/A
	- printing equipment with a power supply of a rated power larger than 750 W		
	- large format printing equipment		
	- tele-presence systems		
	- desktop thin clients		
	- workstations		
	- mobile workstations		
	- small-scale servers		
	- computer servers		
	As of Jan. 01, 2017		
4	In addition to the requirements set out in point 3(a) and (b), the following provisions shall apply:		Р
4(a)	Networked equipment that has one or more standby mode(s) shall comply with the requirements for these standby mode(s) when all wired network ports are disconnected and when all wireless network ports are deactivated		Р
4(b)	Networked equipment other than HiNA equipment shall comply with the provisions under 2(d) when all wired network ports are disconnected and when all wireless network ports are deactivated.		Р
4(c)	Power consumption in a condition providing "networked standby":		Р
	The power consumption of HiNA equipment or equipment with HiNA functionality, in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 8 W.		Р
	The power consumption of other networked equipment in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 3W		N/A
	The power consumption limits as stipulated in point (c) shall not apply to:		N/A
	- large format printing equipment		
	- desktop thin clients		
	- workstations		
	- mobile workstations		
	- small-scale servers		
	- computer servers		
	As of Jan. 01, 2019		





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Clause	Requirement + Test	Result - Remark	Verdict
5	In addition to the requirements set out in point 3(a) and (b) and point 4(a), (b) and (c), the following provision shall apply for networked equipment other than HiNA equipment or other than equipment with HiNA-functionality:		N/A
	The power consumption of networked equipment other than HiNA equipment or other than equipment with HiNA functionality, in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 2 W.		N/A
	As of Jan. 01, 2015		•
6	For coffee machines, the delay time after which the product switches automatically into the modes and conditions referred to in Annex II, point 2, paragraph (d) shall be as follows:		N/A
	— for domestic drip filter coffee machines storing the coffee in an insulated jug, a maximum of five minutes after completion of the last brewing cycle or 30 minutes after completion of a descaling or self-cleaning process,		N/A
	— for domestic drip filter coffee machines storing the coffee in a non-insulated jug, a maximum of 40 minutes after completion of the last brewing cycle, or 30 minutes after completion of a descaling or self-cleaning process,		N/A
	— for domestic coffee machines other than drip filter coffee machines, a maximum of 30 minutes after completion of the last brewing cycle, or a maximum of 30 minutes after activation of the heating element, or a maximum of 60 minutes after activation of the cup preheating function, or a maximum of 30 minutes after completion of a descaling or self-cleaning process, unless an alarm has been triggered requiring users' intervention to prevent possible damage or accident.		N/A
	Until the above date the ecodesign requirements set out in Annex II.2.d shall not apply		N/A





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COMMISS	SION REGULATION (EC) No 1275/2008 ANNEX II, (EC)	No 801/2013 ecodesign requirements	
Clause	Requirement + Test	Result - Remark Verdict	
Table 1	Test parameters for measurements	Р	
The measur	ement method used:	EN 50564: 2011	
Test ambien	t temperature (°C)	21.1	
Test ambien	t air speed (m/s)	0.2	
Test voltage	in V and frequency in Hz:	230V/50Hz	
Total harmo	nic distortion (THD) of the electricity supply system (%):	0.823	
	f events to reach the mode where the equipment y changes modes:	N/A	
Other notes regarding the operation of the equipment		N/A	
Set-up and	circuits used for electrical testing:		
	Power meter Pr	oduct under test	
Power	supply v External posupply u		





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COMMISS	SION REGULATION (EC) No 1275/2008 ANNEX II, (EC)	No 801/2013 ecodes	sign requirements
Clause	Requirement + Test	Result - Remark V	
Table 2	Test result		Р
Operating n	node(s)	Measured (W)	Limit (W)
Off-mode co	ondition:	N/A	0.5
consumption	on which does not exceed the applicable power n requirements for off mode when the equipment is the mains power source:	N/A	0.5
Power cons	sumption in 'standby mode(s)' in		
a reactivation	on providing only a reactivation function or providing only on function and a mere indication of enabled reactivation	N/A	0.5
Any condition providing only information or status display, or providing only a combination of reactivation function and information or status display		1	
Any condition which does not exceed the applicable power consumption requirements for standby mode when the equipment is connected to the mains power source:		N/A	
HiNA equip	ment power consumption in networked standby mode:	3.108	8

Test instruments:

Result:

Name	Manufacturer	Model	Last cal. date	Next cal. date
AC source	Shenzhen XinNuoEr Power Co., Ltd.	1103	2021/3/7	2022/3/6
Power analysis meter	YOKOGAWA	WT310E	2021/3/7	2022/3/6
Air speed meter	MS6252	8712	2 021-08-25	2022-08-24
Stopwatch	Shenzhen Huibo Industrial & Trade Co., Ltd.	PC396	2021/8/19	2022/8/18

The EUT complies with (EC) No 1275/2008 Annex II and (EC) No 801/2013









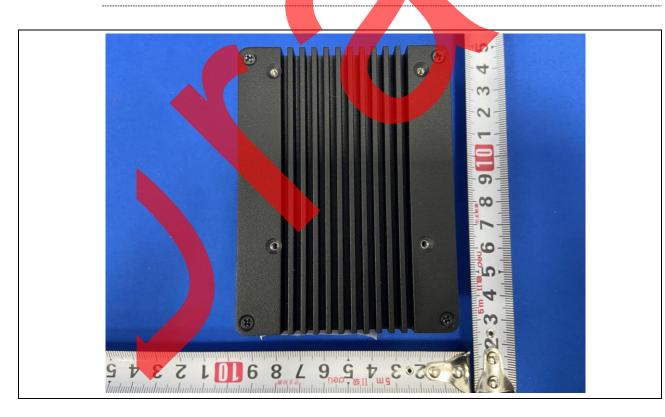
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Photo documentation

Details of: Overview 1



Details of: Overview 2





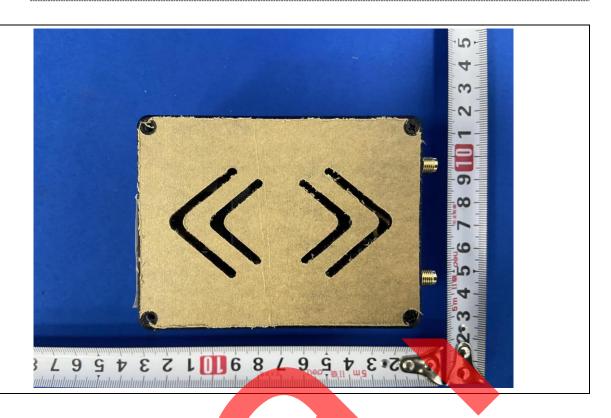




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Photo documentation

Details of: Overview 3













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Details of: Overview 5



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