




TEST REPORT

Application No.:	S20220208748401	
Applicant's name.....:	Lumi United Technology Co., Ltd.	
Applicant's address :	Room 801-804,Building 1, Chongwen Park,Nanshan iPark,No.3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China	
Sample description: :	Hub M1S Gen 2	
Model	HM1S-G02	
Date of receipt of test item	2022.02.10	
Test location	Fanguang Inspection & Testing Co., Ltd (Guangzhou Branch) Room 02, The 2nd floor No.201, GRG Technological Building, 163 Ping Yun Rd, Tianhe District, Guangzhou, China	
Test standard	Commission Regulation (EC) No 1275/2008 – 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 – Annex II	
Test date(s)	2022.03.30 to 2022.04.10	
Test result	Pass	
Date of issue	2022.05.19	
Tested by:	Reviewed by:	Approved by:
Haibo Liang	Jun Yang	Anhua Chen
		
Other aspects:	/	
Abbreviations: P = passed; F = failed; N/A = not applicable		
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced, except in full, without the written approval of FGTEST.		
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TEST REPORT

COMMISSION REGULATION (EC) NO 1275/2008

ERP Test Report _Standby/off

ecodesign requirements of electrical and electronic household and office equipment

Implementing Directive 2009/125/EC

Test item description..... Hub M1S Gen 2
Trade mark 
Manufacturer Same as applicant
Factory /
Ratings..... 100-240V~, 50/60Hz, 0.2A, Class II

Test item particulars:

Equipment mobility : Direct plug-in equipment

Operating condition..... : Continuous

Access location : Operator accessible

Tested for IT power systems : No

IT testing, phase-phase voltage (V)
 : N.A.

Class of equipment : Class II

Considered current rating (A) : N.A.

Pollution degree (PD) : PD 2

IP protection class : IPX0

Altitude during operation (m) : Less than 2000m

Altitude of test laboratory (m) : Less than 2000m

Mass of equipment (kg) : 0.14kg

General remarks:

The test results presented in this report relate only to the object tested.
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"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a point is used as the decimal separator.

General product information:

1. The equipment under test (EUT) is Hub M1S Gen 2, a gateway witch is information technology equipment.
2. The tests in this report are conducted as per EN 50564:2011 standard.
3. The tests sample No.: S20220208748401-1-1.

Copy of marking plate:



REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
ANNEX II	Ecodesign requirements		N/A
1	One year after this Regulation has come into force:		N/A
1(a)	(a) Power consumption in 'off mode': Power consumption of equipment in any off-mode condition shall not exceed 1,00 W.		N/A
1(b)	(b) Power consumption in 'standby mode(s)': The power consumption of equipment in any condition providing only a reactivation function, or providing only are activation function and a mere indication of enabled reactivation function, shall not exceed 1,00 W. The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, shall not exceed 2,00 W.		N/A
1(c)	(c) Availability of off mode and/or standby mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another 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.		N/A
2	Four years after this Regulation has come into force:		N/A
2(a)	(a) Power consumption in 'off mode': Power consumption of equipment in any off-mode condition shall not exceed 0,50 W.		N/A
2(b)	(b) Power consumption in 'standby mode(s)': The power consumption of equipment in any condition providing only a reactivation function, or providing only are activation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W. The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display shall not exceed 1,00 W.		N/A
2(c)	(c) Availability of off mode and/or standby mode Equipment shall, except where this is inappropriate for the intended use, provide off mode and/or standby mode, and/or another 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.	Off/standby mode is inappropriate for the intended use of equipment	N/A

REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
2(d)	(d) Power management When equipment is not providing the main function, or when other energy-using product(s) are not dependent on its functions, equipment shall, unless inappropriate for the intended use, offer a power management function, or a similar function, that switches equipment after the shortest possible period of time appropriate for the intended use of the equipment, automatically into: Standby mode, or off mode, or another 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. The power management function shall be activated before delivery.		N/A
3	As of 1 January 2015		P
3(a)	Possibility of deactivating wireless network connection(s)		P
	Any networked equipment that can be connected to a wireless network shall offer the user the possibility to deactivate the wireless network connection(s). This requirement does not apply to products which rely on a single wireless network connection for intended use and have no wired network connection		P
3(b)	Power management for networked equipment		P
	Equipment shall, unless inappropriate for the intended use, offer a power management function or a similar function. When equipment is not providing a main 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		P
	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		P
	The power management function, or a similar function, shall be available for all network ports of the networked equipment		P
	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		P

REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
	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	Not more than 20 minutes	P
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		P
3(d)	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		N/A
3(e)	Power consumption in a condition providing networked standby:		P
	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 12,00 W		P
	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 6,00 W		N/A
4	As of 1 January 2017:		P
	In addition to the requirements set out in point 3(a) and (b), the following provisions shall apply:		P
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		P
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		N/A
4(c)	Power consumption in a condition providing 'networked standby':		P
	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 8,00 W		P

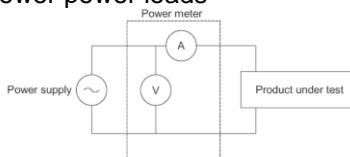
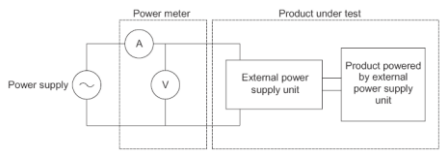
REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
	The power consumption of other networked equipment in a condition providing networked standby into which the equipment is switched by the power management function, or a similar function, shall not exceed 3,00 W		N/A
5	As of 1 January 2019		N/A
	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 2,00 W		N/A
6	As of 1 January 2015		N/A
	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:	Not coffee machines.	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
7	Product information requirements		P
	As of 1 January 2015, the following information for networked equipment shall be visibly displayed on manufacturers' freely accessible websites:		P

REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
7(a)	For each standby and/or off mode and the condition providing networked standby into which the equipment is switched by the power management function or similar function:		P
	— the power consumption data in Watt rounded to the first decimal place,		P
	— the period of time after which the power management function, or a similar function, switches the equipment automatically into standby and/or off mode and/or the condition providing networked standby		P
7(b)	The power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated		P
7(c)	Guidance on how to activate and deactivate wireless network ports		P
	The power consumption of the product in networked standby as referred to in point (b) and the guidance as referred to in point (c) shall also be included in the user manual.		P
8	Measurements		P
	The power consumption referred to in point 1(a) and (b), point 2(a) and (b), points 3(e) and 4(c) and point 5, and the delay times referred to in point 6, shall be established by a reliable, accurate and reproducible measurement procedure, which takes into account the generally recognised state of the art		P
9	Information to be provided by manufacturers		P
	For the purposes of conformity assessment pursuant to Article 4, the technical documentation shall contain the following elements:		P
9(a)	For each standby and/or off mode:		P
	— the power consumption data in Watt rounded to the first decimal place		P
	— the measurement method used	Average reading method used	P
	— a description of how the equipment mode was selected or programmed		N/A
	— the sequence of events leading to the condition where the equipment automatically changes modes		N/A
	— any notes regarding the operation of the equipment, e.g. information on how the user switches the equipment into a condition having networked standby		N/A

REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
	— any notes regarding the operation of the equipment, e.g. information on how the user switches the equipment into a condition having networked standby		N/A
9(b)	For networked equipment:		P
	— the number and type of network ports and, with the exception of wireless network ports, where these ports are located on the equipment; in particular it shall be declared if the same physical network port accommodates two or more types of network ports		P
	— whether all network ports are deactivated before delivery		N/A
	— whether the equipment qualifies as HiNA equipment or equipment with HiNA functionality; where no information is provided, this is considered not to be the case		P
	and for each type of network port:		N/A
	— the default time after which the power management function, or a similar function, switches the equipment into a condition providing networked standby		N/A
	— the trigger that is used to reactivate the equipment		N/A
	— the (maximum) performance specifications		N/A
	— the (maximum) power consumption of the equipment in a condition providing networked standby into which the power management function, or a similar function, will switch the equipment, if only this port is used for remote activation		N/A
	— the communication protocol used by the equipment		N/A
	If no information is provided, the equipment is considered not to be networked equipment unless it provides the functionalities of a router, network switch, wireless network access point (not being a terminal), hub, modem, VoIP telephone, video phone		N/A
9(c)	Test parameters for measurements:		P
	— ambient temperature	(See appended table 1)	P
	— test voltage in V and frequency in Hz	(See appended table 1)	P
	— total harmonic distortion of the electricity supply system	(See appended table 1)	P
	— information and documentation on the instrumentation, set-up and circuits used for electrical testing	(See appended table 1)	P

REG (EC) No. 1275/2008			
Clause	Requirement	Result - Remark	Verdict
9(d)	The equipment characteristics relevant for assessing conformity with the requirements set out in point 1(c), or the requirements set out in points 2(c) and/or 2(d) and/or 3(b), as applicable, including the time taken to automatically reach standby, or off mode, or another condition which does not exceed the applicable power consumption requirements for off mode and/or standby mode		N/A
	In particular, if applicable, a technical justification shall be provided that the requirements set out in point 1(c), or the requirements set out in points 2(c) and/or 2(d) and/or 3(b), are inappropriate for the intended use of equipment. The need to maintain one or more network connections or to wait for a remotely initiated trigger is not considered a technical justification for exemption from the requirements set out in 2(d) in the case of equipment that is not defined as networked equipment by the manufacturer		N/A

Measured Data:

1	TABLE: Measuring conditions	P
Environmental condition mets requirement of:		
Ambient Temperature shall be 23 °C ±5°C	25.0	
Illuminance level greater than 300 lx and less than 10 lx	N/A	
Power source mets requirement of:		
Voltage shall be 230 V ±1 %	230Vac	
Frequency shall be 50 Hz ±1 %	50Hz	
THD value shall be less than 2 %	0.45 %	
Ratio of peak value of test voltage to rms of 1.33 to 1.49	1.43	
Power measurement instrument meets requirement of:		
Power measurement accuracy:	<input type="checkbox"/> Measurements of power of 0.5 W or greater shall be made with an uncertainty of less than or equal to 2% at the 95% confidence level <input checked="" type="checkbox"/> Measurements of power of 0.5 W or greater shall be made with an uncertainty of less than or equal to 2% at the 95% confidence level	
The power measurement instrument shall have a resolution of:	<input checked="" type="checkbox"/> 0.01 W or better for power measurements of 10 W or less <input type="checkbox"/> 0.1 W or better for power measurements of greater than 10 W up to 100 W <input type="checkbox"/> 1 W or better for power measurements of greater than 100 W	
Set-up and circuits used for electrical testing:		
<input checked="" type="checkbox"/> Figure1, connection arrangement for products powered directly from an a.c. power supply for lower power loads 	<input type="checkbox"/> Figure 2, connection arrangement for products powered via an external power supply for lower power loads 	
Supplementary information: --		

2	TABLE: Electrical data	P
Rms input voltage (V)	230Vac	
Input supply frequency (Hz)	50Hz	
Rms off mode power (W) (test method according to EN 50564:2011)		
Measured rms off mode power (W)	N/A	
Limit value for rms off mode power (From 07 January 2013)(W)	<input type="checkbox"/> N/A <input type="checkbox"/> 0.5Watt <input type="checkbox"/> 1.0Watt	

Rms standby mode power (W) (test method according to EN 50564:2011)	
Measured Rms standby mode power (W)	N/A
Limit value for rms standby mode power (From 07 January 2013) (W)	<input type="checkbox"/> 0.5Watt <input type="checkbox"/> 1.0Watt
It shall provide a function with the following characteristics: after 30mins in on mode following the last user interaction and/or a channel change, the television shall be automatically switched from on mode to:	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> standby-mode <input type="checkbox"/> off-mode <input type="checkbox"/> another condition which does not exceed the applicable power consumption requirements for off-mode and/or standbymode;
It shall display an alert message before the automatic switch from on mode to the applicable condition/modes.	N/A
Rms networked standby mode power for networked equipment (W) (test method according to EN 50564:2011)	
Measured rms networked standby mode power for networked equipment (W)	1.76W
Limit value for rms networked standby mode power for networked equipment (W)	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> For networked equipment with HiNA functionality <input checked="" type="checkbox"/> 12.00W (As of 1 January 2015) <input checked="" type="checkbox"/> 8.00 W (As of 1 January 2017) <input type="checkbox"/> 2.0 W (As of 1 January 2019) <input type="checkbox"/> For networked equipment without HiNA functionality <input type="checkbox"/> 6.00W (As of 1 January 2015) <input type="checkbox"/> 3.00W (As of 1 January 2017) <input type="checkbox"/> 2.0W (As of 1 January 2019)
Supplementary information: --	

List of test equipment used:

No.	Equipment name	Model	Equipment. No.	Due date of calibration
1.	AC Power Source	AFC-33060TE	FGZGJC-2021-004	2022-06-02
2.	Power meter	WT210	FGZGDB-2016-096	2023-03-24
3.	Stop watch	JD-100	FGZDA-2016-423	2022-10-25
4.	Electronic balance	JJ300	FGZGJC-2017-270	2023-04-15
5.	Hygrothermograph	JR900	FGZDA-2018-009	2023-02-23

Photos of the product:

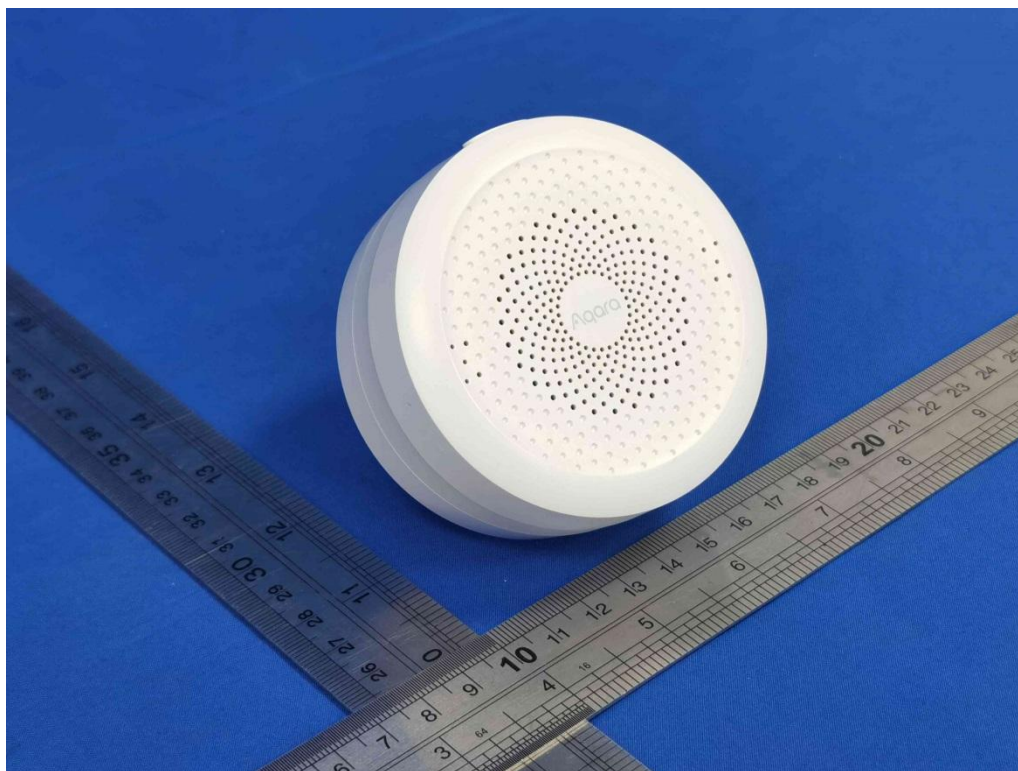


Photo 1: Over view

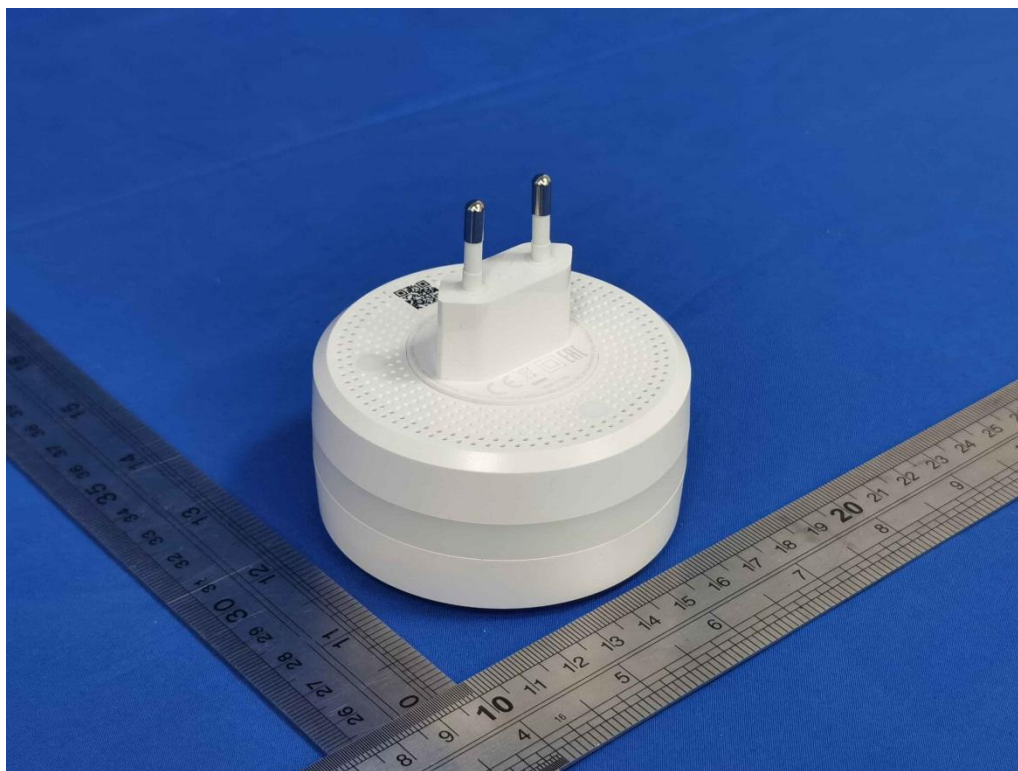


Photo 2: Over view

---End---