

RF EXPOSURE REPORT



Applicant: FLH Co., LTD.
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105410, Taiwan

Manufacturer: HSUN WEALTH TECHNOLOGY CO., LTD.
11F., No. 49, Sec. 1, Qingfeng Rd., Qingpu Vil., Zhongli Dist.,
Taoyuan City 320016, Taiwan (R.O.C.)

Product Name: AI Hub

Brand Name: Ferqo

Model No.: MG-1

Family Model No.: DSC-1AA53

Model Difference: Refer to Section 1.2

FCC ID 2BXB8MG1

Date of EUT Received: Feb. 25, 2026

Issue Date: Jul. 24, 2026

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2603000178ES	00	Original	Jun. 08, 2026	Cindy Chou	
TESA2603000178ES	01	Update FCC ID	Jul. 24, 2026	Cindy Chou	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	AI Hub
Brand Name:	Ferqo
Model No.:	MG-1
Family Model No.:	DSC-1AA53
Model Difference:	Refer to Section 1.2

1.2 Model Difference

Model No.	Brand Name	Marketing Name	Sales Country
MG-1	Ferqo	Ferqo AI Hub	Taiwan
DSC-1AA53	Daikin	AI NILM Smart Hub	Singapore

1.3 Evaluation site

Laboratory		Site Address	FCC Designation number/ Registration Number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☐	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027/ 891563	4620A	TW3702
	☒	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028/ 200037	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.	TW0029/ 150169	23862	

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1.4 Antenna Information:

BT / WLAN 2.4GHz

Antenna Type	Supplier	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	DOSKING	2.4GHz	-2.97

WLAN 5GHz

Antenna Type	Supplier	Note
PIFA	DOSKING	Ant 1

Operating Frequency (MHz)	Ant 1 Peak Gain (dBi)
5150.0 ~ 5250.0	-2.283
5250.0 ~ 5350.0	-2.64
5470.0 ~ 5725.0	-2.23
5725.0 ~ 5850.0	-2.35

Note: Antenna information is provided by the applicant.

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1.5 Rated Power

Bluetooth / WLAN 2.4GHz

Mode	Freq. Range (MHz)	Channels	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BR+EDR+BLE	2402-2480	79	8.52	-2.97	5.55	
WLAN 2.4GHz	2412-2462	11	18	-2.97	15.03	V

WLAN 5GHz

Mode	Freq. Range (MHz)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
WLAN 5GHz	5150~5250	17.50	-2.28	15.22	V
	5250~5350	17.50	-2.64	14.86	
	5470~5725	16.55	-2.23	14.32	
	5725~5850	17.50	-2.35	15.15	

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2480.00	20	8.52	-2.97	3.59	0.0007	1.000	Pass	0.001	V
WLAN 2.4G	2442.00	20	18	-2.97	31.84	0.006	1.000	Pass	0.006	V
WLAN 5G	5180.00	20	17.5	-2.28	33.24	0.007	1.000	Pass	0.007	V

Conclusion: Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

2.2.1 Collocated Power Density Calculation

Operation Mode	Σ (Power Density / Limit)
WLAN 2.4G + BT	0.007
WLAN 2.4G + WLAN 2.4G	0.013
WLAN 5G + BT	0.007
WLAN 5G + WLAN 5G	0.013
WLAN 5G + WLAN 5G + BT	0.014

Note:

1. $\Sigma(\text{Power Density} / \text{Limit})$: This is a summation of [(Power Density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
2. Considering the collocated transmitters, the aggregated (Power Density /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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