

RF EXPOSURE REPORT



FCC Applicant: FIH CO., LTD.
No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679,
Taiwan

FCC Manufacturer: FIH CO., LTD.
No.4, Minsheng St., Tu-Cheng Dist., New Taipei City 23679,
Taiwan

Product Name: Internet Gateway

Brand Name: FIH

Model No.: FSNO21VA

Model Difference: N/A

Report Number: ES/2022/30011

FCC ID RYQFSNO21VA

Issue Date: June 07, 2022

Date of EUT Received: March 30, 2022

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ES/2022/30011	00	Original.	June 01, 2022	Ruby Ou	*
ES/2022/30011	01	Revise MPE-based exemption and simultaneous transmission test exemption	June 07, 2022	Ruby Ou	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Internet Gateway
Brand Name:	FIH
Model No.:	FSNO21VA
Model Difference:	N/A
Hardware Version:	1.0
Firmware Version:	V0.15A_1KUS
Power Supply:	12Vdc from AC/DC Adapter

1.2 Evaluation site

Laboratory	Site Address		FCC Designation number
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
	☒	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029

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1.3 Antenna Information:

The antenna information is provided by the applicant.

1.3.1 BT / WLAN 2.4GHz

Antenna Type	Chain	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	0	2412-2462	0.77	3.61
	1	2412-2462	0.42	3.61

1.3.2 WLAN 5GHz

Antenna Type	Chain	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Dipole	0	5150~5250	-1.04	4.29
		5250~5350	-1.10	4.73
		5475~5725	-1.44	4.99
		5725~5850	-1.35	4.88
Dipole	1	5150~5250	-2.84	4.29
		5250~5350	-1.34	4.73
		5475~5725	-0.72	4.99
		5725~5850	-1.31	4.88
Dipole	2	5150~5250	-1.68	4.29
		5250~5350	-1.49	4.73
		5475~5725	-1.54	4.99
		5725~5850	-1.59	4.88
Dipole	3	5150~5250	-1.46	4.29
		5250~5350	-1.22	4.73
		5475~5725	-0.47	4.99
		5725~5850	-0.36	4.88

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1.3.3 LTE

Antenna Type	Antenna No.
PIFA	Ant0
Dipole	Ant1
Monopole	Ant4
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)		
				Ant0	Ant1	Ant4
LTE-Band 2	1850	~	1910		-0.07863	
LTE-Band 5	824	~	849	-2.41266		
LTE-Band 13	777	~	787			-2.98952
LTE-Band 66	1710	~	1780		-0.89447	

Antenna Type	Antenna No.
PIFA	Ant0
Dipole	Ant1
Note: Transmission in frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)	
				Ant0	Ant1
LTE-Band 5	824	~	849	-2.41266	
LTE-Band 66	1710	~	1780		-0.89447

Antenna Type	Antenna No.
Monopole	Ant4
Dipole	Ant5
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)	
				Ant4	Ant5
LTE-Band 48	3550	~	3700	-0.85709	-1.868

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1.3.4 5G NR

Antenna Type	Antenna No.
PIFA	Ant0
Monopole	Ant4
Dipole	Ant5
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

5G NR Bands	Frequency (MHz)		Peak Antenna Gain (dBi)		
			Ant0	Ant4	Ant5
2	1850	~ 1910	-0.72698		
5	824	~ 849	-2.41266		
66	1710	~ 1780	-1.39889		
77 (lower)	3450	~ 3550		-1.05494	-1.79714
77 (upper)	3700	~ 3980		-0.67148	-1.868

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2 DETERMINATION OF MPE EXEMPTION

2.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

- (C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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**Table 1 to § 1.1307(b)(3)(i)(C) –
Single RF Sources Subject to Routine Environmental Evaluation**

RF Source frequency (MHz)			Minimum Distance			Threshold ERP (W)
fL		fH	$\lambda L / 2\pi$		$\lambda H / 2\pi$	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.2 Multiple RF Sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

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2.3 MPE-based exemption

Chain 0+1+WWAN	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Simultaneous transmission modes					
										1	2	3	4	5	6
WiFi 2.4GHz	2437	25.94	3.61	27.4	0.550	0.0196	0.350	2.352	0.234	V					
LTE B2	1860	23.14	-0.33	20.66	0.116	0.0257	0.350	2.352	0.049	V	V				
LTE B5	829	22.93	-3.24	17.54	0.057	0.0576	0.350	1.300	0.044	V	V				
5C	831.8	23.81	-3.24	18.42	0.070	0.0574	0.350	1.304	0.054	V	V				
LTE B13	782	23.38	-3.29	17.94	0.062	0.0611	0.350	1.226	0.051	V	V				
LTE B66	1720	22.69	-1.28	19.26	0.084	0.0278	0.350	2.352	0.036	V	V				
66C	1750.1	23.38	-1.28	19.95	0.099	0.0273	0.350	2.352	0.042	V	V				
66B	1767.7	23.42	-1.28	19.99	0.100	0.0270	0.350	2.352	0.043	V	V				
LTE B48	3560	23.26	-0.31	20.8	0.120	0.0134	0.350	2.352	0.051	V	V				
n2	1880	23.55	-0.14	21.26	0.134	0.0254	0.350	2.352	0.057	V	V				
n5	831.5	23.46	-3.24	18.07	0.064	0.0575	0.350	1.304	0.049	V	V				
n66	1717.5	22.64	-0.60	19.89	0.097	0.0278	0.350	2.352	0.041	V	V				
n77	3840	28.72	-1.20	25.37	0.344	0.0124	0.350	2.352	0.146	V	V				
n48	3679.98	23.32	-1.20	19.97	0.099	0.0130	0.350	2.352	0.042	V	V				

Chain 0+1+2+3+W WAN	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Simultaneous transmission modes					
										1	2	3	4	5	6
WiFi 5GHz	5825	29.94	4.99	32.78	1.897	0.0082	0.350	2.352	0.807		V				
LTE B2	1860	23.14	-0.33	20.66	0.116	0.0257	0.350	2.352	0.049	V	V				
LTE B5	829	22.93	-3.24	17.54	0.057	0.0576	0.350	1.300	0.044	V	V				
5C	831.8	23.81	-3.24	18.42	0.070	0.0574	0.350	1.304	0.054	V	V				
LTE B13	782	23.38	-3.29	17.94	0.062	0.0611	0.350	1.226	0.051	V	V				
LTE B66	1720	22.69	-1.28	19.26	0.084	0.0278	0.350	2.352	0.036	V	V				
66C	1750.1	23.38	-1.28	19.95	0.099	0.0273	0.350	2.352	0.042	V	V				
66B	1767.7	23.42	-1.28	19.99	0.100	0.0270	0.350	2.352	0.043	V	V				
LTE B48	3560	23.26	-0.31	20.8	0.120	0.0134	0.350	2.352	0.051	V	V				
n2	1880	23.55	-0.14	21.26	0.134	0.0254	0.350	2.352	0.057	V	V				
n5	831.5	23.46	-3.24	18.07	0.064	0.0575	0.350	1.304	0.049	V	V				
n66	1717.5	22.64	-0.60	19.89	0.097	0.0278	0.350	2.352	0.041	V	V				
n77	3840	28.72	-1.20	25.37	0.344	0.0124	0.350	2.352	0.146	V	V				
n48	3679.98	23.32	-1.20	19.97	0.099	0.0130	0.350	2.352	0.042	V	V				

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the permissible minimum separation distance of that band.

2.4 Simultaneous transmission test exemption

Simultaneous transmission modes	Σ ERP/ERP _{th}	Criteria
1	0.380	1
2	0.953	1

~ End of Report ~

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