





# **FCC RF Exposure Report**

FCC ID : SUFIFT22664B

Equipment : InfoTag 2.66 G3 COLOUR

Model No. : InfoTag 2.66

Brand Name : DIGI

Applicant : DIGI SINGAPORE PTE. LTD.

Address : 4 Leng Kee Rd, #05-03/04/05&11, SIS Building,

Singapore 159088

Standard : 47 CFR FCC Part 2.1093

Received Date : Aug. 29, 2024

Tested Date : Oct. 07 ~ Oct. 09, 2024

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Chen / Assistant Manager Gary Chang / Manager

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# **Release Record**

Report No.	Version	Description	Issued Date
FA482901	Rev. 01	Initial issue	Oct. 17, 2024

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### 1 RF Exposure Test Exemptions

### 1.1 1-mW TEST EXEMPTION

Available maximum time-averaged power is no more than 1 mW.

#### 1.2 SAR-BASED EXEMPTION

This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with test separation distances between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

The maximum time-averaged power or effective radiated power (ERP), whichever is greater, ≤ Pth

Pth (mW) = ERP<sub>20cm</sub>(d/20)<sup>x</sup> d $\leq$ 20cm

Pth (mW) = ERP<sub>20cm</sub> 20 cm < d  $\leq$ 40cm

Where  $x = -\log_{10}(\frac{60}{\text{ERP}20\text{cm}\sqrt{f}})$ 

Pth (mW) = ERP<sub>20cm</sub>(mW) = 2040f 0.3GHz  $\leq$  f < 1.5 GHz Pth (mW) = ERP<sub>20cm</sub>(mW) = 3060 1.5GHz  $\leq$  f < 6 GHz

#### Power Thresholds (mW)

Fower Thresholds (IIIW)										
Frequency	Distance (mm)									
(MHz)	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

### 1.3 MPE-BASED EXEMPTION

For a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters.

Radio	Source Fred	quency	Mi	nimum Distan	Threshold ERP			
F∟ MHz	z F <sub>H</sub> MHz		λι/2π		λн/2π	W		
0.3	-	1.34	159 m	-	35.6 m	1920 R <sup>2</sup>		
1.34	-	30	35.6 m	-	1.6 m	3450 R <sup>2</sup> /f <sup>2</sup>		
30	-	300	1.6 m	-	159 mm	3.83 R <sup>2</sup>		
300	-	1500	159 mm	-	31.8 mm	0.0128 R <sup>2</sup> f		
1500	-	100000	31.8 mm	-	0.5 mm	19.2 R <sup>2</sup>		

Note: R is the antenna-person separation distance.

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#### 1.4 REFERENCE GUIDANCE

447498 D04 Interim General RF Exposure Guidance v01

#### 1.5 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

#### 1.6 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Parameters	Uncertainty				
Unwanted Emission	±4.59 dB				

#### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

### 1.7 EXEMPTION CALCULATION

Maximum Fundamental Emissions (dBuV/m)	Maximum Fundamental Emissions (EIRP, dBm)	Maximum Tune Up Limit (EIRP, dBm)	Antenna Gain ( dBi))	Maximum Tune Up Limit (ERP, mW)	Conducted Power (mW)	SAR Exemption Limits (mW)	Pass/ Fail
54.34	-40.89	-40.5	3.3	0.0001	0.00004	3	Pass

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### 2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <a href="http://www.icertifi.com.tw">http://www.icertifi.com.tw</a>.

#### Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

#### Kwei Shan

Tel: 886-3-271-8666
No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

#### Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

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