



# RF EXPOSURE EVALUATION REPORT

FCC ID : 2AEM4-401217  
Equipment : eero PoE 6  
Brand Name : eero  
Model Name : T010001  
Applicant : eero LLC  
660 3rd Street,4th Floor,San  
Francisco,CA 94107-(415)738-7972  
Manufacturer : LUXSHARE-ICT(VIETNAM) LIMITED  
Lot E, Quang Chau industry park,  
Quang Chau village,Viet Yen  
district,Bac Giang province,Viet Nam  
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full

Approved by: Cona Huang / Deputy Manager



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**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	eero PoE 6
Brand Name	eero
Model Name	T010001
FCC ID	2AEM4-401217
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.5GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8GHz Band: 5725 MHz ~ 5855 MHz WLAN 5.8G UNII4 Band: 5850 MHz ~ 5895 MHz Bluetooth: 2402 MHz ~ 2480 MHz Zigbee: 2405 MHz ~ 2480 MHz
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth LE Zigbee: O-QPSK
EUT Stage	Identical Prototype

**Reviewed by: Jason Wang**

**Report Producer: Paula Chen**



**2. Maximum RF average output power among production units**

Band	Maximum Average power
2.4GHz WLAN	23.91
5.2GHz WLAN	25.83
5.3GHz WLAN	22.37
5.5GHz WLAN	23.91
5.8GHz WLAN	27.26
5.8G UNII-4	26.76

Band	Maximum Average Power (dBm)
Bluetooth LE	18.20
Zigbee	18.20

### 3. RF Exposure Limit Introduction

According to Part 1.1307b, Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (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). Pth is given by:

$$P_{th} \text{ (mW)} = ERP_{20cm} (d / 20)^x \text{ for distance } d \leq 20\text{cm}$$

$$P_{th} \text{ (mW)} = ERP_{20cm} \text{ for distance } 20\text{cm} < d \leq 40\text{cm}$$

$$x = -\log_{10} \left( \frac{60}{ERP_{20cm} \sqrt{f}} \right)$$

ERP <sub>20cm</sub> (mW)	0.3 GHz ≤ f < 1.5 GHz:	2040 f
	1.5 GHz ≤ f ≤ 6 GHz:	3060



### 4. RF Exposure Evaluation

#### 4.1. Standalone assessment

Band	Antenna Gain (dBi)	Maximum Conducted Power (dBm)	Maximum EIRP (dBm)	Maximum ERP (dBm)	Maximum EIRP (mW)	Maximum ERP (mW)	P <sub>th</sub>	P <sub>th</sub> (mW)	Maximum Output RF Power Limit (mW)	Part1.1307 option(b) Threshold (mW)	Part1.1307 option(b) P/P <sub>th</sub>
2.4GHz WLAN	3.81	23.91	18.7	16.57	74.47	45.39	14.91	30.97	7000	3060.000	0.0101
5.2GHz WLAN	5.50	25.83	25.3	23.18	341.19	207.97	19.83	96.16	7000	3060.000	0.0314
5.3GHz WLAN	5.25	22.37	23.4	21.21	216.77	132.13	18.11	64.71	7000	3060.000	0.0211
5.5GHz WLAN	4.86	23.91	25.8	23.62	377.57	230.14	20.91	123.31	7000	3060.000	0.0403
5.8GHz WLAN	5.30	27.26	23.6	21.41	226.99	138.36	18.26	66.99	7000	3060.000	0.0219
5.8G UNII-4	5.30	26.76	26.1	23.91	403.65	246.04	20.76	119.12	7000	3060.000	0.0389
Bluetooth	4.10	18.20	13.3	11.15	21.38	13.03	9.20	8.32	3981	3060.000	0.0027
Zigbee	4.10	18.20	16.3	14.15	42.66	26.00	12.20	16.60	3981	3060.000	0.0054

#### 4.2. Collocated assessment

WLAN 2.4GHz P/P <sub>th</sub> Ratio	WLAN 5GHz P/P <sub>th</sub> Ratio	Σ (P/P <sub>th</sub> Ratio) of WLAN 2.4GHz + WLAN 5GHz
0.0101	0.0403	0.0504

**Note:**

- According to part1.1307b, the P/P<sub>th</sub> Ratio is using for Sim-Tx analysis, above table is showing WLAN 2.4GHz transmitting with WLAN 5GHz and the summation ratio is smaller than 1.

### Conclusion:

According to 47 CFR §1.1307, the RF exposure analysis concludes that the RF Exposure is FCC compliant.