

FCC RF EXPOSURE REPORT

FCC ID: 2BCFYHT-6766BEM

Test Report No.....: RF250516013-01-006

Product(s) Name.....: Wireless Home Gateway

Model(s).....: HT-6766BEM

Trade Mark.....: HEIGHTS

Applicant.....: Heights Telecom T LTD

Address.....: Ha-Sakhlav 6, Irus, 7680900, Israel

Receipt Date.....: 2025.06.20

Test Date.....: 2025.06.23~2025.08.26

Issued Date.....: 2025.09.01

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Jason Huang	Black Ding	Tim Zhang	
<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

History of this test report

Original Report Issue Date: 2025.09.01

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the 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

Table for Filed Antenna

For BLE:

Antenna	Antenna gain	Antenna Type
Ant1	3.67dBi	PCB Antenna
Ant2	3.81dBi	PCB Antenna

For 2.4GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	3.67dBi	PCB Antenna
Ant2	3.72dBi	PCB Antenna

For 5GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	4.42dBi	PCB Antenna
Ant2	4.48dBi	PCB Antenna
Ant3	4.43dBi	PCB Antenna
Ant4	4.19dBi	PCB Antenna

For 6E_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	4.24dBi	PCB Antenna
Ant2	4.92dBi	PCB Antenna
Ant3	4.84dBi	PCB Antenna
Ant4	3.35dBi	PCB Antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
2.4G Wifi Ant1	2412-2462	26.16	3.67	29.83	961.612	1	0.122
2.4G Wifi Ant2	2412-2462	26.45	3.72	30.17	1039.920	1	0.132
5G Wifi Ant1	5180-5825	23.44	4.42	27.86	610.942	1	0.078
5G Wifi Ant2	5180-5825	24.54	4.48	29.02	797.995	1	0.102
5G Wifi Ant3	5180-5825	23.40	4.43	27.83	606.736	1	0.077
5G Wifi Ant4	5180-5825	23.30	4.19	27.49	561.048	1	0.071
6E Wifi Ant1	5925-7125	20.78	4.24	25.02	317.687	1	0.040
6E Wifi Ant2	5925-7125	20.83	4.92	25.75	375.837	1	0.048
6E Wifi Ant3	5925-7125	21.13	4.84	25.97	395.367	1	0.050
6E Wifi Ant4	5925-7125	21.59	3.35	24.94	311.889	1	0.040
BLE Ant1	2402-2480	9.36	3.67	13.03	20.091	1	0.003
BLE Ant2	2402-2480	9.37	3.81	13.18	20.797	1	0.003

Note: 1. The calculated distance is 25cm.
2. The Wifi function can transmit at the same time with the BLE function

$$\begin{aligned}
 &\text{The ratio} = \text{MPE}_{2.4\text{G Wifi Ant1}}/\text{limit} + \text{MPE}_{2.4\text{G Wifi Ant2}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant1}}/\text{limit} + \\
 &\text{MPE}_{5\text{G Wifi Ant2}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant3}}/\text{limit} + \text{MPE}_{5\text{G Wifi Ant4}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant1}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant2}}/\text{limit} + \\
 &\text{MPE}_{6\text{E Wifi Ant3}}/\text{limit} + \text{MPE}_{6\text{E Wifi Ant4}}/\text{limit} + \text{MPE}_{\text{BLE Ant1}}/\text{limit} + \text{MPE}_{\text{BLE Ant2}}/\text{limit} \\
 &= 0.0122/1 + 0.132/1 + 0.078/1 + 0.102/1 + 0.077/1 + 0.071/1 + 0.040/1 + 0.048/1 + 0.050/1 + 0.040/1 \\
 &\quad + 0.003/1 + 0.003/1 = 0.766 < 1.0
 \end{aligned}$$

As the sum of MPE ratios for all simultaneous transmitting antennas is ≤ 1.0 , simultaneous transmission MPE test exclusion will be applied.

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: service@hy-lab.cn

(END OF REPORT)