FCC RF EXPOSURE REPORT

FCC ID: 2BCFY-ERO1BE

Test Report No……..:	RF250516014-02-004
Product(s) Name……...:	Wireless Home Mesh
Model(s)……..:	ERO1BE
Trade Mark……....:	HEIGHTS
Applicant……..:	HEIGHTS TELECOM T LTD
Address……..…...:	Ha-Sakhlav 6,7680900 Irus, Israel
Receipt Date……..:	2025.06.20
Test Date……....:	2025.09.15~2025.09.16
Issued Date……..…:	2025.09.16
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	
Jason Huang	Black Ding	Tim.zhang	

History of this test report

Original Report Issue Date: 2025.09.16

● 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

Note: Model ERO1BE makes change based on Model ERO1BEM PRO, The structure remains unchanged, with the hardware removing the 6G WiFi component. Change 2 PHY from 10G to 2.5G, bit number GU1, GU2:2010060005381021 (10G PHY) to 2010060005331021 (2.5G PHY), bit number T2, T3:210010015252044 (10G network transformer) to 2100100012532044 (2.5G network transformer). Comes with a 2A adapter.
So, after evaluation The data refer to the model ERO1BEM PRO
For BLE:

Antenna	Antenna gain	Antenna Type
Ant1	3.97dBi	PCB Antenna
Ant2	3.83dBi	PCB Antenna

For 2.4GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	3.47dBi	PCB Antenna
Ant2	3.32dBi	PCB Antenna
Total Ant(non-BF)	1.78dBi	PCB Antenna
Total Ant(BF)	4.78dBi	PCB Antenna

For 5GHz_WiFi:

Antenna	Antenna gain	Antenna Type
Ant1	4.72dBi	PCB Antenna
Ant2	4.68dBi	PCB Antenna
Ant3	4.73dBi	PCB Antenna
Ant4	4.19dBi	PCB Antenna
Total Ant(non-BF)	1.14dBi	PCB Antenna
Total Ant(BF)	6.91dBi	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	2412-2462	29.31	1.78	31.09	1285.29	1	0.2558
5G Wifi	5180-5825	29.75	1.14	30.89	1227.4	1	0.2443
BLE (ANT1)	2402-2480	8.06	3.97	12.03	15.96	1	0.0032
BLE (ANT2)	2402-2480	8.27	3.83	12.10	16.22	1	0.0032

Note: 1. The calculated distance is 20 cm.
2. The Wifi function can transmit at the same time with the BLE function

The ratio= $MPE_{2.4G\ Wifi}$ /limit+ $MPE_{5G\ Wifi}$ /limit+$MPE_{6E\ Wifi}$/limit+ MPE_{BLE} /limit
=0.2558/1+0.2443/1+0.0032/1+0.0032/1=0.5065<1.0

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)