

RF EXPOSURE REPORT

FCC ID: 2BCFY-ERO1ETPRO

Test Report No.....: RF240218004-01-006

Product(s) Name.....: Mesh Extender

Model(s).....: ERO1eT PRO

Trade Mark.....: N/A

Applicant.....: Heights Telecom T LTD

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


Receipt Date.....: 2024.02.20

Test Date.....: 2024.02.21~2024.03.28

Issued Date.....: 2024.03.29

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.

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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 2.4GWiFi

Antenna gain		Antenna Type
Ant1: 3.50dBi	Ant2: 3.63dBi	PCB antenna

For 5GWiFi

Antenna gain				Antenna Type
Ant1: 4.46dBi	Ant2: 3.79dBi	Ant3: 3.75dBi	Ant4: 4.25dBi	PCB antenna

For 6EWiFi

Antenna gain				Antenna Type
Ant1: 3.98dBi	Ant2: 3.57dBi	Ant3: 3.86dBi	Ant4: 3.15dBi	PCB antenna

For BLE

Antenna gain	Antenna Type
Ant1: 3.90dBi	PCB antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power (dBm)	Directional Antenna Gain (dBi)	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)			(dBm)	(mW)		
2.4G Wifi ant1	2412-2462	27.03	3.50	30.53	1129.80	1	0.225
2.4G Wifi ant2	2412-2462	26.76	3.63	30.39	1093.96	1	0.218
5G Wifi ant1	5180-5825	23.45	4.46	27.91	618.02	1	0.123
5G Wifi ant2	5180-5825	23.84	3.79	27.63	579.43	1	0.115
5G Wifi ant3	5180-5825	23.74	3.75	27.49	561.05	1	0.112
5G Wifi ant4	5180-5825	23.74	4.25	27.99	629.51	1	0.125
BLE	2402-2480	0.50	3.90	4.40	2.75	1	0.001

Operating Mode	Freq.	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(mW)		
6E Wifi	5925-7125	23.54	225.94	1	0.045

- Note: 1. The calculated distance is 20 cm.
 2. The Wifi function can transmit at the same time with the BLE function
 3. For 6E Wifi, worst case for 4TX mode was recorded.

Simultaneous transmitting consideration

The ratio= $MPE_{2.4G\ Wifi\ ant1}/limit + MPE_{2.4G\ Wifi\ ant2}/limit + MPE_{5G\ Wifi\ ant1}/limit + MPE_{5G\ Wifi\ ant2}/limit + MPE_{5G\ Wifi\ ant3}/limit + MPE_{5G\ Wifi\ ant4}/limit + MPE_{6E\ Wifi}/limit + MPE_{BLE}/limit = 0.225/1 + 0.218/1 + 0.123/1 + 0.115/1 + 0.112/1 + 0.125/1 + 0.001/1 + 0.045/1 = 0.964 < 1.0$

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology 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 Technology Co., Ltd.

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(END OF REPORT)