

FCC RF EXPOSURE REPORT

FCC ID: 2BCFYHT-360AX

Test Report No.....: RF230807005-01-004

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

Model(s).....: HT-360AXE, HT-360AXI, HT-360AXG

Trade Mark.....: HEIGHTS

Applicant.....: Heights Telecom T LTD

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


Receipt Date.....: 2023.08.07

Test Date.....: 2023.08.21~2023.09.04

Issued Date.....: 2023.09.23

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:	
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History of this test report

Original Report Issue Date: 2023.09.23

- 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 2.4GWiFi

Antenna gain			Antenna Type
Ant1: 2.81dBi	Ant2: 3.01dBi	Ant2: 3.43dBi	PCB antenna

For 5GWiFi:5150~5350MHz

Antenna gain				Antenna Type
Ant1: 3.98dBi	Ant2: 4.41dBi	Ant3: 4.46dBi	Ant4: 4.56dBi	PCB antenna

For 5GWiFi:5470~5725MHz

Antenna gain				Antenna Type
Ant1: 4.43dBi	Ant2: 4.54dBi	Ant3: 4.48dBi	Ant4: 4.46dBi	PCB antenna

For 5GWiFi:5725~5850MHz

Antenna gain				Antenna Type
Ant1: 4.53dBi	Ant2: 4.33dBi	Ant3: 4.56dBi	Ant4: 4.48dBi	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	24.26	2.81	27.07	509.33	1	0.101
2.4G Wifi ant2	2412-2462	23.94	3.01	26.95	495.45	1	0.099
2.4G Wifi ant3	2412-2462	24.52	3.43	27.95	623.73	1	0.124
5G Wifi ant1	5180-5825	22.69	4.53	27.22	527.23	1	0.105
5G Wifi ant2	5180-5825	23.66	4.33	27.99	629.51	1	0.125
5G Wifi ant3	5180-5825	23.72	4.56	28.28	672.98	1	0.134
5G Wifi ant4	5180-5825	23.40	4.48	27.88	613.76	1	0.122

Note: 1. The calculated distance is 20 cm.

2. The 2.4G Wifi function can transmit at the same time with the 5G Wifi function

Simultaneous transmitting consideration

The ratio= $MPE_{2.4G\ Wifi\ ant1}/limit + MPE_{2.4G\ Wifi\ ant2}/limit + MPE_{2.4G\ Wifi\ ant3}/limit + MPE_{5G\ Wifi\ ant1}/limit + MPE_{5G\ Wifi\ ant2}/limit + MPE_{5G\ Wifi\ ant3}/limit + MPE_{5G\ Wifi\ ant4}/limit = 0.101/1 + 0.099/1 + 0.124/1 + 0.105/1 + 0.125/1 + 0.134/1 + 0.122/1 = 0.81 < 1.0$

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)