FCC RF Exposure

Applicant	:	GLAZERO INTERNATIONAL INC
Address	:	8 The Green,Suite A in the City of Dover.Zip code 19901.
Product Name	:	aosu Homebase H2E
Brand Mark	:	aosu, DEKCO, Saato
Model no.	:	H2E
Series model	:	DH2E, H2F, H2G, H2H, H2I, H2SDH2F, DH2G, DH2H, DH2I, DH2S
FCC ID	:	2BACU-H2E
Report Number	:	BLA-EMC-202502-A7202
Date of Receipt	:	Feb. 28, 2025
Date of Test	:	Feb. 28, 2025 to Mar. 14, 2025
Test Standard	:	47 CFR Part 15, Part1.1307 47 CFR Part 15, Part2.1093 KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Compiled by: Mark Chen **Review by:** Sweely **Approved by:** Steve Zheng

Issued Date: Mar. 15, 2025

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Revise Record

Version No.	Date	Description
01	Mar. 15, 2025	Original

1 General information

1.1 General information

Applicant	GLAZERO INTERNATIONAL INC
Address	8 The Green,Suite A in the City of Dover.Zip code 19901.
Manufacturer	GLAZERO INTERNATIONAL INC
Address	8 The Green,Suite A in the City of Dover.Zip code 19901.
Factory	Shenzhen Anran Security Technology Co., Ltd
Address	290 jihua Road, Jihua street, Longgang District, Shenzhen

1.2 General description of EUT

Product Name	aosu Homebase H2E	
Model No.	H2E	
Series model	DH2E, H2F, H2G, H2H, H2I, H2SDH2F, DH2G, DH2H, DH2I, DH2S	
Differences of Series model	The software and hardware of the product are consistent between the reported model and the main certification model, and the difference is only used to distinguish differentsales channels	
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz	
Modulation Type	802.11b: DSSS(CCK/QPSK/BPSK) 802.11g: OFDM(BPSK/QPSK/16QAM/64QAM) 802.11n (HT20 and HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)	
Channel Spacing	5MHz	
Number of Channels	802.11b/g/n(HT20):11 802.11n(HT40):7	
Antenna Type	PIFA Antenna	
Antenna Gain	WIFI Ant 1:4.21dBi WIFI Ant 2:4.83dBi	
Power supply	Adapter 1	Model:TPQ-228F120200UW01 Input:100-240V, 50/60Hz 0.8A Device Input: 12.0V ⎓ 2.0A
	Adapter 2	Model:TEKA-AD1B120200US Input:100-240V, 50/60Hz 0.7A MAX Device Input: 12.0V ⎓ 2.0A
Hardware Version	N/A	
Software Version	N/A	

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\,\text{cm})^{x} & d \le 20\,\text{cm} \\ ERP_{20\,\text{cm}} & 20\,\text{cm} < d \le 40\,\text{cm} \end{cases} \quad \text{(B.2)}$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\,\text{cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\,\text{GHz} \le f < 1.5\,\text{GHz} \\ 3060 & 1.5\,\text{GHz} \le f \le 6\,\text{GHz} \end{cases} \quad \text{(B.1)}$$

2.3 Result

EIRP = pt x gt = (E X d)2/30
Where:
pt = transmitter output power in watts,
gt = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m
d = measurement distance in meters (m)
Spot = (EXd)2/30 x gt
Ant 1 gain = 4.21dBi, Ant 2 gain = 4.83dBi
Directional gain = 7.54dBi
2.4G WIFI worse case: 18.259dBm @ 802.11nH20
ERP=18.259+7.54-2.15=23.649dBm=231.686mW <3060mW
Comply with RF exposure exemption limit.

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