FCC RF EXPOSURE REPORT

FCC ID: 2AOHHTURBOXC2290

Project No.	:	2407C144
Equipment	:	Smart Module
Brand Name	:	TurboX
Test Model	:	TurboX C2290
Series Model	:	N/A
Applicant	:	Thundercomm Technology Co., Ltd
Address	:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Manufacturer	:	Thundercomm Technology Co., Ltd
Address	:	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Factory	:	MIKI TECHNOLOGY HUIZHOU
Address	:	39 Guangtai Road, Huinan Science Park, Huizhou City
Date of Receipt	:	Jul. 22, 2024
Date of Test	:	Jul. 24, 2024 ~ Aug. 14, 2024
Issued Date	:	Aug. 28, 2024
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG2024072344
Standard(s)	:	FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2407C144	R00	Original Report.	Aug. 28, 2024	Valid

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

2. ANTENNA SPECIFICATION

For BT&LE&2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TAOGLAS.	TG.55.8113	Monopole	N/A	1.69

Note: The antenna gain is provided by the manufacturer.

For 5G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TAOGLAS.	TG.55.8113	Monopole	N/A	0.7

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For BT:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	10.63	11.5611	0.00340	1	Complies

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	6.26	4.2267	0.00124	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
1.69	1.4757	19.06	80.5378	0.02366	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
0.7	1.1749	17.07	50.9331	0.01191	1	Complies

Note:
(1) The calculated distance is 20 cm.
(2) Output power including tune up tolerance(tune up tolerance: 0.5 dB).
(3) Ratio=Power Density (S) (mW/cm^2)/Limit of Power Density (S) (mW/cm^2)
(4) BT, LE, WLAN 2.4GHz and WLAN 5GHz can not simultaneous transmission.

End of Test Report