


FCC RF EXPOSURE REPORT

FCC ID: 2AFENXK10T

Project No. : 2503C105
Equipment : Projector
Brand Name : XGIMI
Test Model : XK10T
Series Model : N/A
Applicant : XGIMI Technology Co., Ltd.
Address : No. 4, Zone A, No. 1129, Shijicheng Road, Chengdu Hi-tech Zone,
Sichuan Pilot Free Trade Zone, 610041 China
Manufacturer : XGIMI Technology Co., Ltd.
Address : No. 4, Zone A, No. 1129, Shijicheng Road, Chengdu Hi-tech Zone,
Sichuan Pilot Free Trade Zone, 610041 China
Factory1 : XGIMI VIETNAM TECHNOLOGY COMPANY LIMITED
Address : Lot CN 4-1, My Thuan Industria I Zone, y Thuan Commune, Nam Dinh
City, Nam Dinh Province, Vietnam
Factory2 : Yibin XGIMI Optoelectronic Co., Ltd.
Address : No. 2, West Section 4, Changjiang North Road, Lingang Economic
Development Zone, Yibin City, Sichuan P.R. China
Date of Receipt : Mar. 11, 2025
Date of Test : Mar. 13, 2025 ~ Apr. 24, 2025
Issued Date : Jun. 25, 2025
Report Version : R02
Test Sample : Engineering Sample No.: DG20250311146
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. (Dongguan)

Prepared by : 
Sheldon Ou

Approved by : 
Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2503C105	R00	Original Report.	May 15, 2025	Invalid
BTL-FCCP-6-2503C105	R01	Removed the series model.	May 28, 2025	Invalid
BTL-FCCP-6-2503C105	R02	Added the P/N code of antenna for the BT/LE.	Jun. 25, 2025	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:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	XGIMI	BT-XK10T	PIFA	N/A	0.33

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	XGIMI	409-00236-001	Dipole	I-pex	1.16
2	XGIMI	409-00237-001	Dipole	I-pex	1.68

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=1.68.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 1.68 + 10\log(2/1)\text{dBi} = 4.69$.
- 2) The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	XGIMI	409-00236-001	Dipole	I-pex	8.03
2	XGIMI	409-00237-001	Dipole	I-pex	7.17

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=8.03.
So, the UNII-1, UNII-2A and UNII-2C output power limit is $23.98 - (8.03 - 6) = 21.95$, the UNII-3 output power limit is $30 - (8.03 - 6) = 27.97$.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 8.03 + 10\log(2/1)\text{dBi} = 11.04$.
Then, The UNII-1, UNII-2A and UNII-2C power spectral density limit is $11 - (11.04 - 6) = 5.96$, the UNII-3 power spectral density limit is $30 - (11.04 - 6) = 24.96$.
- 2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For BT:

Directional gain (dBi)	Directional 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
0.33	1.0789	9.33	8.5704	0.00184	1	Complies

For LE:

Directional gain (dBi)	Directional 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
0.33	1.0789	9.19	8.2985	0.00178	1	Complies

For 2.4GHz:

Directional gain (dBi)	Directional 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
1.68	1.4723	27.68	586.1382	0.17177	1	Complies

For 5GHz:

Directional gain (dBi)	Directional 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
8.03	6.3533	24.99	315.5005	0.39898	1	Complies

For the max simultaneous transmission MPE:

Ratio			Total	Limit of Ratio	Test Result
BT	2.4GHz	5GHz			
0.00184	0.17177	0.39898	0.57259	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report