



FCC RF EXPOSURE REPORT

FCC ID: 2BSTS-MC450

Project No. : 2511C569
Equipment : Projector
Brand Name : 
Test Model : MC450
Model Name : MC450, X1FA, MC450PRO, MC450A, X1F Max, X1F Ultra
Software Version : Android 13
Hardware Version : STM950-HTC-X3T
Applicant : Global Aiptek Inc.
Address : 2911 N Cicero Ave., Chicago, IL, 60641, US
Manufacturer : Global Aiptek Inc.
Address : 2911 N Cicero Ave., Chicago, IL, 60641, US
Factory1 : BO CHENG RUBBER PHILIPPINES INC.
Address : BLOCK 5 LOT 3 PHASE 3 LIMA TECHNOLOGY CENTER-SEZ SAN FERNANDO MALVAR BATANGAS, 4233 Philippines
Factory2 : Chengdu Hotack Technology Co., Ltd.
Address : 501-502, Unit 3, Building 13, No. 666 Jinfenghuang Avenue, High-tech Industry Park, Jinniu District, Chengdu City, Si Chuan Province, China.
Date of Receipt : Dec. 01, 2025
Date of Test : Dec. 02, 2025 ~ Jan. 14, 2026
Issued Date : Jan. 21, 2026
Test Sample : Engineering Sample No.: DG920251201199, DG920251201202
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 : 
 Chella Zhena

Approved by : 
 Steven Lu

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

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2511C569	R00	Original Report.	Jan. 21, 2026	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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 EDR&LE:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		WIFI/BT	FPC	N/A	4.76

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		WIFI/BT	FPC	N/A	3.19

Note: The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		WIFI/BT	FPC	N/A	3.75

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
4.76	2.9923	2.19	1.6558	0.0010	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
4.76	2.9923	0.33	1.0789	0.0006	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
3.19	2.0845	17.28	53.4564	0.0222	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
3.75	2.3714	16.29	42.5598	0.0201	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
BT	5GHz			
0.0010	0.0201	0.0211	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)
- (3) Output power including tune up tolerance.

End of Test Report