

## RF Exposure Report

**FCC ID: 2AS7X-X3**

The EUT is a Projector in the 2412 ~ 2462MHz and 5745-5825 MHz frequency band.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

### (A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6

### (B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

### MPE calculation method

Calculation Method of RF Safety Distance:

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

S: power density mW/ cm<sup>2</sup>;

P: power input to the antenna in mW;

g: numeric gain of antenna;

r: distance to centre of radiation in cm

**Calculated result**

Mode	Max. Peak output power (dBm)	Max. Peak output power (mW)	Antenna Gain (numeric)	Power Density (S) (mW/ cm <sup>2</sup> )	Limit of Power Density (S) (mW/ cm <sup>2</sup> )
802.11b	12.763	18.89	1.26	0.004738	1
802.11g	11.776	15.05	1.26	0.003775	1
802.11n20	11.698	14.78	1.26	0.003707	1
802.11n40	10.624	11.54	1.26	0.002895	1
802.11a	10.62	11.53	1.26	0.002892	1
5G Wi-Fi 802.11 n20	9.92	9.81	1.26	0.002462	1
5G Wi-Fi 802.11 n40	9.73	9.39	1.26	0.002356	1
5G Wi-Fi 802.11 ac80	8.84	7.65	1.26	0.001920	1

Note1: the antenna gain is 1.0dBi;

Note2: Calculated distance is 20cm, which is declared by the manufacture.