

## RF Exposure Report

**FCC ID: 2AS7X-BL108**

The EUT is a projector in the 2412MHz ~ 2462MHz 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   | 17.65                        | 58.21                       | 1.56                   | 0.018074                                 | 1   |
| 802.11g   | 15.30                        | 33.88                       | 1.56                   | 0.010521                                 | 1   |
| 802.11n20 | 14.48                        | 28.05                       | 1.56                   | 0.008711                                 | 1   |
| 802.11n40 | 12.37                        | 17.25                       | 1.56                   | 0.005358                                 | 1   |

Note1: the antenna gain is 1.95dBi;

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