

# Maximum Permissive Exposure

FCC ID: BEJ9SSA2B2T520

Product Name: Wireless Scheduling Switch

Model No: (1)9SSA2B1T520 (2)9SSA2B2T520

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

| Frequency Range (MHz)                                                     | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Average Time (Minutes) |
|---------------------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits For Occupational / Control Exposures (f = frequency)           |                               |                               |                                     |                        |
| 30-300                                                                    | 61.4                          | 0.163                         | 1.0                                 | 6                      |
| 300-1500                                                                  | ...                           | ...                           | f/300                               | 6                      |
| 1500-100,000                                                              | ...                           | ...                           | 5.0                                 | 6                      |
| (B) Limits For General Population / Uncontrolled Exposure (f = frequency) |                               |                               |                                     |                        |
| 30-300                                                                    | 27.5                          | 0.073                         | 0.2                                 | 30                     |
| 300-1500                                                                  | ...                           | ...                           | f/1500                              | 30                     |
| 1500-100,000                                                              | ...                           | ...                           | 1.0                                 | 30                     |

## 2. MPE Calculation

LG Electronics Inc. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.581 Numerical**, and the highest power output (P) is **5.228mW**, the power density (S) is **0.001644mW/cm<sup>2</sup>**.

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where :

|                                           |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| Based on safety distance (r)=             | 20 cm                                                                     |
| Highest Power Output (P)=                 | 7.183 dBm = <b>5.228 mW</b>                                               |
| Antenna Gain (G)=                         | 1.99 dBi = <b>1.581 Numerical</b>                                         |
| MPE (S) = (P*G) / (4*π*r <sup>2</sup> ) = | = <b>(5.228*1.581)/(4*4*π*20<sup>2</sup>)= 0.001644 mW/cm<sup>2</sup></b> |

Sincerely Yours,



Mr. Ben Cheng  
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