RF Exposure

The equipment under test (EUT) is a 16.4FT 12V RGB Strip + RF Strip Controller operating at 2410MHz. The EUT is powered by adapter(Input: AC100-240V, 50/60Hz, 0.8A; Output: DC12V, 2000mA). For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi Max The nominal radiated output power (e.i.r.p) specified: -6dBm (Tolerance: +/- 3dB) The nominal conducted output power specified: -6dBm (Tolerance: +/- 3dB)

According to the KDB 447498:

The maximum peak radiated emission for the EUT is $86.8dB\mu V/m$ at 3m in the frequency 2410MHz. The EIRP = [(FS*D) ^2 / 30] mW = -8.43dBm which is within the production variation.

The maximun conducted output power specified is -3dBm = 0.5mWThe source- based time-averaging conducted output power = 0.5 * Duty factor mW (where Duty Factor ≤ 1) = 0.5 mW

The SAR Exclusion Threshold Level: = 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz) = 3.0 * 5 / sqrt (2.410) mW = 9.66 mW

Since the source-based time-averaging conducted output power is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

FCC ID: 2AKP3-190713-00