

## RF Exposure Requirements

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Product Description: Wireless controller

Model No.: LY16A\_CR

FCC ID: 2BP8I-LY16A

IC: 34138-LY16A

Tx frequency: 433.92 MHz Type of Modulation: OOK

Antenna Type: PCB Antenna

Nominal rated field strength: 76.04 dB $\mu$ V/m at 3 meter

Based on the Maximum allowed field strength was 76.04 dB $\mu$ V/m at 3m in frequency 433.92 MHz, thus;

$$\text{The EIRP} = [(FS \cdot D)^2 \cdot 1000 / 30] = 0.0121 \text{ mW}$$

According to the FCC Part 1.1307(b)(3)(i)(A) and KDB 447498 D04v01, a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

According to the RSS-102 Issue 6 Table 11, a single RF source is an exempt RF device if the maximum time-average power available at a separation distance of 5mm or less does not exceed 32mw, regardless of separation distance.

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.