



RF Exposure Evaluation

FCC ID: 2A6V3XL-SBCRS

According to KDB 447498 D04 Interim General RF Exposure Guidance and FCC Part 2.1093.

EUT Specification

Product Name:	WIRELESS REMOTE
Trade Mark:	/
Model/Type Reference:	XL-SBCONRS
Listed Model(s):	/
Model Differences:	/
Frequency Band (Operating)	433.92MHz
Device Category	<input checked="" type="checkbox"/> Portable (<5mm separation) <input type="checkbox"/> Mobile (>20cm separation) <input type="checkbox"/> Fixed (>20cm separation) <input type="checkbox"/> Others ____
Antenna Diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> TX diversity <input type="checkbox"/> RX diversity <input type="checkbox"/> TX/RX diversity
Antenna Gain (Max)	0dBi

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For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn

**Measurement Result**

$$e_{\text{irp}} = p_t \times g_t = (E \times d)^2 / 30$$

where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((\text{dBuV/m})/20)/10^6}$

d = measurement distance in meters (m), --- 3m

$$\text{So } p_t = (E \times d)^2 / (30 \times g_t)$$

433.92MHz Field strength = 70.41 dBuV/m @3m

Ant gain 0dBi, Ant numeric gain = 1

$$\text{So } p_t = \{[10^{(70.41/20)/10^6} \times 3]^2 / (30 \times 1)\} \times 1000 \text{ mW} = 0.003 \text{ mW}$$

Per § 1.1307(b)(3)(i)(A), 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.

*****THE END*****