



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 : www.cnca.gov.cn



Measurement Result

$$\text{eirp} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2/30$$

where:

pt = transmitter output power in watts,

gt = 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

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

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

Ant gain 0dBi, Ant numeric gain = 1

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

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*****