# 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 | ☒Portable (<5mm separation)<br>☐Mobile (>20cm separation)<br>☐Fixed (>20cm separation)<br>☐Others ___ |
| Antenna Diversity | ☒Single antenna<br>☐Multiple antennas<br>☐TX diversity<br>☐RX diversity<br>☐TX/RX diversity |
| Antenna Gain (Max) | 0dBi |

**Measurement Result**

eirp = pt x gt = $(E \times d)^2/30$
where:
pt = transmitter output power in watts,
gt = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m, --- $10^{((dBuV/m)/20)}/10^6$
d = measurement distance in meters (m), --- 3m
So pt = $(E \times d)^2/(30 \times gt)$

433.92MHz Field strength = 70.41 dBuV/m @3m
Ant gain 0dBi, Ant numeric gain = 1

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