## RF EXPOSURE EVALUATION

#### 1. PRODUCT INFORMATION

Product Description	RGB Controller
Model Name	RG100, RG101, RG102
FCC ID	WBQRG1XX

#### 2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v05

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  for 10-g extremity SAR.

Where f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

### 3. CALCULATION

BLE:

P<sub>t</sub>=0.284dBm=1.07mW

The value of the Maximum output power P<sub>t</sub> is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation SAR=(1.07mW /5mm) .[ $\sqrt{2.402}$ GHz)]= 0.33<3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR.

# 4. CONCLUSION

The SAR evaluation is not required.