

RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Satechi Slim Bluetooth Keyboard
Model Name	ST-BTSX3M
Series Model	ST-BTSX1, ST-BTSX2, ST-BTSX3, ST-BTSX2M, ST-BTSX1M, ST-BTSX3S, ST-BTSX2S, ST-BTSX1S, ST-BTSX3B, ST-BTSX2B, ST-BTSX1B, ST-BTSX3R, ST-BTSX2R, ST-BTSX1R, ST-BTSX3G, ST-BTSX2G, ST-BTSX1G, ST-BTSX3K, ST-BTSX2K, ST-BTSX1K, ST-BTSX3Z, ST-BTSX2Z, ST-BTSX1Z, ST-BTSX3M-FR, ST-BTSX3M-DE, ST-BTSX3M-ND, ST-BTSX3M-CH, ST-BTSX3M-UK, ST-BTSX3M-RU, ST-BTSX3M-JP, ST-BTSX3M-SC, ST-BTSX2M-FR, ST-BTSX2M-DE, ST-BTSX2M-ND, ST-BTSX2M-CH, ST-BTSX2M-UK, ST-BTSX2M-RU, ST-BTSX2M-JP, ST-BTSX2M-SC, ST-BTSX1M-FR, ST-BTSX1M-DE, ST-BTSX1M-ND, ST-BTSX1M-CH, ST-BTSX1M-UK, ST-BTSX1M-RU, ST-BTSX1M-JP, ST-BTSX1M-SC, ST-BTSXYZ-XX ("Y" is Arabian number 1, 2 or 3 and Z is English letter means color, XX means layout/country)
FCC ID	ZE9-ST-BTSX

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:

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

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

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

3. CALCULATION

$P_t = -0.903\text{dBm} = 0.81\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.81\text{mW} / 5\text{mm}) \cdot \sqrt{2.440\text{GHz}} = 0.25 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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