

## 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  $\leq 50$  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  $\leq 7.5$  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  $\leq 7.5$  for 10-g extremity SAR.

### 4. CONCLUSION

The SAR evaluation is not required.