

## **RF Exposure / MPE Calculation**

**No. : 32IE0154-HO-01**

**Applicant** : silex technology, Inc.  
**Type of Equipment** : SDIO Wireless Module (11n-20(5180 - 5320MHz),  
11n-40(5190 - 5310MHz), 11a(5180 - 5320MHz))  
**Model No.** : SX-SDMAN  
**FCC ID** : N6C-SDMAN  
**IC Number** : 4908B-SDMAN

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silex technology, Inc. declares that Model : SX-SDMAN  
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-SDMAN" as calculated from FCC OET Bulletin 65 Appendix A, Table (B) Limits for General Population / Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain, and considering a 1.0mW/cm<sup>2</sup> uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4 * \pi * r^2)$$

Where

**P = 24.66 mW (Maximum peak output power)**  
**G = 1.78 Numerical Antenna gain; equal 2.50 dBi**  
**r = 20.0 cm**

**For: SX-SDMAN**

$$S = 0.00872 \text{ mW/cm}^2$$

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