

## RF Exposure / MPE Calculation

**No. : 31JE0038-HO-01**

**Applicant** : silex technology, Inc.  
**Type of Equipment** : Wireless LAN PCI Express Mini Card Module (11b/g, 11n-20(2.4GHz/5745-5825MHz), 11n-40(2.4GHz/5755-5795MHz), 11a(5745-5825MHz))  
**Model No.** : SX-PCEAN  
**FCC ID** : N6C-SXPCEAN  
**IC Number** : 4908B-SXPCEAN

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silex technology, Inc. declares that Model : SX-PCEAN  
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-PCEAN" 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 = 551.56 mW (Maximum peak output power)**  
**G = 2.82 Numerical Antenna gain; equal to 4.51 dBi (including Correlated Gain)**  
**r = 20.0 cm**

**For: SX-PCEAN**

$$S = 0.30997 \text{ mW/cm}^2$$

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