

## **RF Exposure / MPE Calculation**

**No. : 28CE0213-HO-01**

**Applicant** : silex technology, Inc.  
**Type of Equipment** : MiniPCI Wireless LAN Board  
**Model No.** : SX-10WAG (5GHz Band, IEEE802.11a)  
**FCC ID** : N6C-SX10WAG  
**IC Number** : 409B-SX10WAG

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### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided with the "SX-10WAG (5GHz Band, IEEE802.11a)" 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 = 20.32 mW** (Maximum peak output power)  
**G = 50.12 Numerical Antenna gain; equal 17.00 dBi**  
**r = 20.0 cm**

**For: SX-10WAG (5GHz Band, IEEE802.11a)      S = 0.20264 mW/cm<sup>2</sup>**

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