

RF Exposure / MPE Calculation

No. : 28IE0116-HO-02

Applicant : silex technology, Inc.
Type of Equipment : MiniPCI Wireless LAN Board (11b/11g/11a Upper Band)
Model No. : SX-10WAN
FCC ID : N6C-SX10WAN
IC Number : 4908B-SX10WAN

silex technology, Inc. declares that Model : SX-10WAN 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-10WAN“ 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/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

$$\begin{aligned} P &= 459.98 \text{ mW (Maximum peak output power)} \\ G &= 1.41 \text{ Numerical Antenna gain; equal } 1.50 \text{ dBi} \\ r &= 20.0 \text{ cm} \end{aligned}$$

For: SX-10WAN

$$S = 0.12926 \text{ mW/cm}^2$$

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