

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 : 4908B-SX10WAG

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/cm² uncontrolled exposure limit. The Friis formula used was:

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

Where

P = 23.66 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 = 0.23590 mW/cm²

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