

RF Exposure / MPE Calculation

No. : 10219901H

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

silex technology, Inc. declares that Model : SX-PCEAN
complies with FCC radiation exposure requirement specified in the FCC Rule 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 (B) Limits for General Population / Uncontrolled Exposure of TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310 Radiofrequency radiation exposure limits.

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 =	551.56 mW (Maximum peak output power)	
G =	1.82 Numerical Antenna gain; equal to	2.60 dBi
r =	20.0 cm	

For: SX-PCEAN

$$S = 0.19967 \text{ mW/cm}^2$$

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