

RF Exposure / MPE Calculation

No. : 10748020H

Applicant : silex technology, Inc.
Type of Equipment : Wireless LAN SDIO module
Model No. : SX-SDMAN2 (WLAN (5GHz band) Part)
FCC ID : N6C-SDMAN2

silex technology, Inc. declares that Model : SX-SDMAN2 (WLAN (5GHz band) Part) 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-SDMAN2 (WLAN (5GHz band) Part)" 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 = 28.27 mW (Maximum Average output power)
G = 2.45 Numerical Antenna gain; equal to 3.90 dBi
r = 20.0 cm

For: SX-SDMAN2 (WLAN (5GHz band) Part)

$$S = 0.01381 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

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