

RF Exposure / MPE Calculation

No. : 32IE0154-HO-01 / 10517042H / 11166423H

Applicant	:	silex technology, Inc.
Type of Equipment	:	SDIO Wireless Module *1) (11n-20(5180 - 5320MHz, 5745 - 5825MHz), 11n-40(5190 - 5310MHz, 5755 - 5795MHz), 11a(5180 - 5320MHz, 5745 - 5825MHz))
Model No.	:	SX-SDMAN
FCC ID	:	N6C-SDMAN
IC Number	:	4908B-SDMAN

silex technology, Inc. declares that Model : SX-SDMAN

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-SDMAN" 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 = 24.66 mW (Maximum conducted output power)

☐ Frame power was used for the above value in consideration of 6-minutes time-averaging

☒ Burst power was used for the above value in consideration of worst condition.

G = 3.02 Numerical Antenna gain; equal 4.80 dBi

r = 20.0 cm

For: SX-SDMAN

$$S = 0.01482 \text{ mW/cm}^2$$

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

*1) The test of frequency band 5180-5320MHz and 5190-5310MHz were referred from 32IE0154-HO-01.

The test of frequency band 5745-5825MHz and 5775-5795MHz were referred to by 10517042H.

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