



April 13, 2023

FCC ID: N6C-SXPCEAN2

To whom it may concern,

We, UL Japan, Inc, hereby declare that PCI Express Half mini card WLAN module, model: SX-PCEAN2 (FCC ID: N6C-SXPCEAN2) of silex technology, Inc. is exempt from RF exposure SAR evaluation because the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula according to the Code of Federal Regulation title 47 section 1.1307(b)(3)(i)(B). This method is used at separation distances  $d$  (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive) for single RF sources.  $P_{th}$  is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d / 20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$$

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

When the minimum separation distance is shorter than 0.5 cm, 0.5 cm is applied.

The SAR evaluation exemption threshold is calculated as below.

**[WLAN 2.4 GHz band part]**

<i>P<sub>th</sub></i> (mW)	3060
<i>f</i> (GHz)	2.462
<i>ERP</i> <sub>20cm</sub> (mW)	3060
<i>d</i> (cm)	20.0

Conducted Power	(dBm)	18.48
	(mW)	70.53
Antenna Gain (dBi)		1.44
EIRP (dBm)		19.92
ERP	(dBm)	17.78
	(mW)	59.98

The Maximum time-averaged power or ERP whichever greater is 70.6 mW.  
(Rounded up to two decimals place)

**[WLAN 5 GHz band part]**

<i>P<sub>th</sub></i> (mW)	3060
<i>f</i> (GHz)	5.825
<i>ERP</i> <sub>20cm</sub> (mW)	3060
<i>d</i> (cm)	20.0

Conducted Power	(dBm)	16.74
	(mW)	47.17
Antenna Gain (dBi)		3.90
EIRP (dBm)		20.64
ERP	(dBm)	18.50
	(mW)	70.79

The Maximum time-averaged power or ERP whichever greater is 70.8 mW.  
(Rounded up to two decimals place)

Thank you for your attention to this matter.



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Satofumi Matsuyama  
Engineer