August 8, 2024

FCC ID: N6C-LLW4250

To whom it may concern,

We, UL Japan, Inc, hereby declare that Low Latency Wireless Device, model: LLW-4250 (FCC ID: N6C-LLW4250) 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:

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

Where

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

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

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]

Pth (mW)	3060
f (GHz)	2.462
ERP 20 cm (mW)	3060
d (cm)	20.0

Conducted Power	(dBm)	21.00
	(mW)	125.89
Antenna Gain (dBi)		1.50
EIRP (dBm)		22.50
ERP	(dBm)	20.36
	(mW)	108.64

The Maximum time-averaged power or ERP whichever greater is 125.9 mW.
(Rounded up to two decimals place)

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[WLAN 5 GHz band part]

Pth (mW)	3060
f (GHz)	5.825
$ERP_{20\ cm}$ (mW)	3060
d (cm)	20.0

Conducted Power	(dBm)	19.00
	(mW)	79.43
Antenna Gain (dBi)		1.70
EIRP (dBm)		20.70
ERP	(dBm)	18.56
	(mW)	71.78

The Maximum time-averaged power or ERP whichever greater is 79.5 mW.
(Rounded up to two decimals place)

Thank you for your attention to this matter.

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