December 20, 2024

FCC ID: AZDK30400

To whom it may concern,

We, UL Japan, Inc, hereby declare that Wireless LAN Module, model: K30400 (FCC ID: AZDK30400) of Canon 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)	18.70
	(mW)	74.13
Antenna Gain (dBi)		2.51
EIRP (dBm)		21.21
ERP	(dBm)	19.07
	(mW)	80.72

The Maximum time-averaged power or ERP whichever greater is 80.8 mW.
(Rounded up to two decimals place)

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[WLAN 5 GHz band part](5180 MHz to 5320 MHz)

Pth (mW)	3060
f (GHz)	5.24
$ERP_{20\ cm}$ (mW)	3060
d (cm)	20.0

Conducted Power	(dBm)	16.00
	(mW)	39.81
Antenna Gain (dBi)		-0.47
EIRP (dBm)		15.53
ERP	(dBm)	13.39
	(mW)	21.83

The Maximum time-averaged power or ERP whichever greater is 39.9 mW.
(Rounded up to two decimals place)

[WLAN 5 GHz band part](5500 MHz to 5700 MHz)

Pth (mW)	3060
f (GHz)	5.7
$ERP_{20\ cm}$ (mW)	3060
d (cm)	20.0

Conducted Power	(dBm)	16.00
	(mW)	39.81
Antenna Gain (dBi)		0.41
EIRP (dBm)		16.41
ERP	(dBm)	14.27
	(mW)	26.73

The Maximum time-averaged power or ERP whichever greater is 39.9 mW.
(Rounded up to two decimals place)

[WLAN 5 GHz band part](5745 MHz to 5825 MHz)

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

Conducted Power	(dBm)	13.00
	(mW)	19.95
Antenna Gain (dBi)		1.33
EIRP (dBm)		14.33
ERP	(dBm)	12.19
	(mW)	16.56

The Maximum time-averaged power or ERP whichever greater is 20 mW.
(Rounded up to two decimals place)

Thank you for your attention to this matter.

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