

Compliance Certification Services Inc.

Report No: C131225R01-RPW

FCC ID: Y4O-LQPJRX

Date of Issue : January 13, 2014

1 APPENDIX I radio frequency exposure

LIMIT

According to §15.407(f), U-NII devices are subject to the radio frequency radiation exposure requirements specified in §§ 1.1307(b), 2.1091 and 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

EUT Specification

EUT USB/MIDI Keytar Controller with Wireless Frequency band (Operating) □ Others: □ Others: □ Mobile (<20cm separation) □ Mobile (<20cm separation) □ Others: □ Others: □ ○ Others: □		
(Operating) □ Others:	EUT	USB/MIDI Keytar Controller with Wireless
Device category		
Antenna diversity Single antenna	Device category	☐ Mobile (>20cm separation)
Antenna diversity Multiple antennas Tx diversity Rx diversity Tx/Rx diversity Tx/Rx diversity Antenna gain (Max) 3.3 dBi (Numeric gain: 2.138) Evaluation applied MPE Evaluation SAR Evaluation* N/A Remark: 1. The maximum output power is 5.08 dBm (3.221mW) at 2444MHz (with 2.138 numeric antenna gain.)	Exposure classification	General Population/Uncontrolled exposure (S=1mW/cm²)
Antenna gain (Max) 3.3 dBi (Numeric gain: 2.138) MPE Evaluation SAR Evaluation* N/A Remark: 1. The maximum output power is 5.08 dBm (3.221mW) at 2444MHz (with 2.138 numeric antenna gain.)	Antenna diversity	☐ Multiple antennas☐ Tx diversity☐ Rx diversity
Evaluation applied ☐ MPE Evaluation ☐ SAR Evaluation* ☐ N/A Remark: 1. The maximum output power is 5.08 dBm (3.221mW) at 2444MHz (with 2.138 numeric antenna gain.)	Max. output power	ZigBee: 5.08dBm (3.221mW)
Evaluation applied SAR Evaluation* N/A Remark: 1. The maximum output power is 5.08 dBm (3.221mW) at 2444MHz (with 2.138 numeric antenna gain.)	Antenna gain (Max)	3.3 dBi (Numeric gain: 2.138)
1. The maximum output power is 5.08 dBm (3.221mW) at 2444MHz (with 2.138 numeric antenna gain.)	Evaluation applied	☐ SAR Evaluation*
CZ - FOLTOODIJE OFTIXEO JOCADON HANSTIINEIS TIO SAK CONSIDELAJION ADDIJEO. THE MAXIMUM DOWELDENSIN IS	1. The maximum output pow	er is 5.08 dBm (3.221mW) at <u>2444MHz</u> (with <u>2.138 numeric antenna gain.)</u> In transmitters, no SAR consideration applied. The maximum power density is

 For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.



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RESULT

According to KDB447498 D01:The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,24 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
- If the test separation distance (antenna-user) is < 5mm, 5mm is used for excluded SAR calculation

	Wireless Interface	Bluetooth
Tune-up Maximum power (dBm)		5.08
Tune-up Maximum rated power (mW)		3.221
Body	Antenna to user (mm)	5
	Frequency(GHz)	2.444
	Test result	1.007
	SAR exclusion threshold	3

Per KDB 447498 D01v05r01 exclusion thresholds is 1.007< 3, RF exposure evaluation is not required.

END OF REPORT