

Compliance Certification Services Inc.

Report No: C131229E01-RPW

FCC ID: Y4O-LQPJTX

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:	
	Portable (<20cm separation)	
Device category	Mobile (>20cm separation)	
	Others:	
Exposure classification	General Population/Uncontrolled exposure (S=1mW/cm²)	
	⊠ Single antenna	
	☐ Multiple antennas	
Antenna diversity	☐ Tx diversity	
	Rx diversity	
	☐ Tx/Rx diversity	
Max. output power	ZigBee: 4.49dBm (2.812mW)	
Antenna gain (Max)	3.3 dBi (Numeric gain: 2.138)	
	☐ MPE Evaluation	
Evaluation applied	☐ SAR Evaluation*	
	⊠ N/A	
Remark:		
1. The maximum output pow	rer is 4.49 dBm (2.812mW) at <u>2444MHz</u> (with <u>2.138 numeric antenna gain.)</u>	
2. For makile or fixed leastion transmitters, no SAR consideration applied. The maximum newer 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.



Compliance Certification Services Inc.

Report No: C131229E01-RPW FCC ID: Y4O-LQPJTX Date of Issue: January 13, 2014

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)] · [$\sqrt{f(GHz)}$] ≤ 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)		4.49
Tune-up Maximum rated power (mW)		2.812
Body	Antenna to user (mm)	5
	Frequency(GHz)	2.444
	Test result	0.879
	SAR exclusion threshold	3

Per KDB 447498 D01v05r01 exclusion thresholds is 0.879< 3, RF exposure evaluation is not required.

END OF REPORT