

## FCC RF EXPOSURE REPORT

Incipio, LLC

Incase Keyboard for iPad Pro 9.7

Model Number: INPW500185

FCC ID: 2AAWX-INPW500185

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## 1. Reference KDB 447498 D01

### 2. Evaluation Result

Following FCC KDB 447498 D01 “General SAR test exclusion guidance”

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:  
$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}$$
where  
 $f(\text{GHz})$  is the RF channel transmit frequency in GHz.  
Power and distance are rounded to the nearest mW and mm before calculation .  
The result is rounded to one decimal place for comparison The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances  $> 50$  mm, the SAR test exclusion threshold is determined according to the following:
  - a) [Threshold at 50 mm in step 1) + (test separation distance - 50mm)  $\cdot$  (  $f(\text{MHz})/150$ )] mW, at 100MHz to 1500 MHz
  - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm)  $\cdot$  10] mW at  $> 1500$  MHz and  $\leq 6$  GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
  - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$  for test separation distances  $> 50$  mm and  $< 200$  mm.
  - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$  for test separation distances  $\leq 50$  mm.
  - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

### Simultaneous transmissions SAR test exclusion:

When the standalone SAR test exclusion of applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following to determine simultaneous transmission SAR test exclusion:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \text{ W/kg for test separation distances } \leq 50 \text{ mm}$$
 Where  $x = 7.5$  for 1-g SAR, and  $x = 18.75$  for 10-g SAR. 1

0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is  $> 50$  mm.

**3. SAR Test Exclusion Thresholds****Maximum measured transmitter power:**

Frequency (GHz)	Max. Power (mW)	Target power (mW)	Min. test separation distance (mm)	SAR test exclusion calculation value <sup>(NOTE 2)</sup>	1-g SAR test exclusion thresholds	Result
2.402 ~ 2.480	1.382	1.585	10	0.250	3	Passs

NOTE: 1. The antenna type is Printed antenna with 1.5dBi gain.

2. Calculate SAR test exclusion thresholds from condition “1” formulas.

**Estimated SAR for EUT**

Frequency (GHz)	Max. Power (mW)	Target power (mW)	Min. test separation distance (mm)	Estimated SAR Value W/kg (1-g)
2.402 ~ 2.480	1.382	1.585	10	0.091

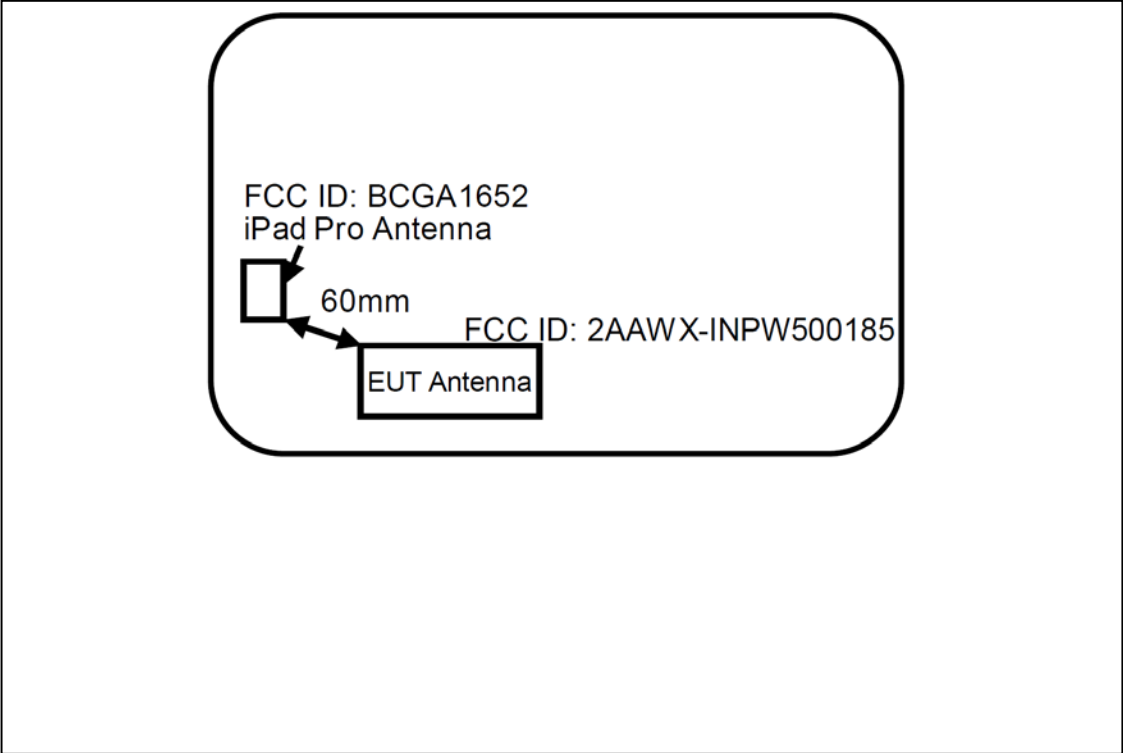
**SAR to peak location separation ratio (SPLSR) requirement:**

SAR1 (EUT) W/kg (1-g)	value from iPad Pro (FCC ID: BCGA1652) W/kg (1-g)	Minimum Separate distance (mm)	SPLSR result	SPLSR limit	Result
0.091	1.456	60	0.032069	0.04	Passs

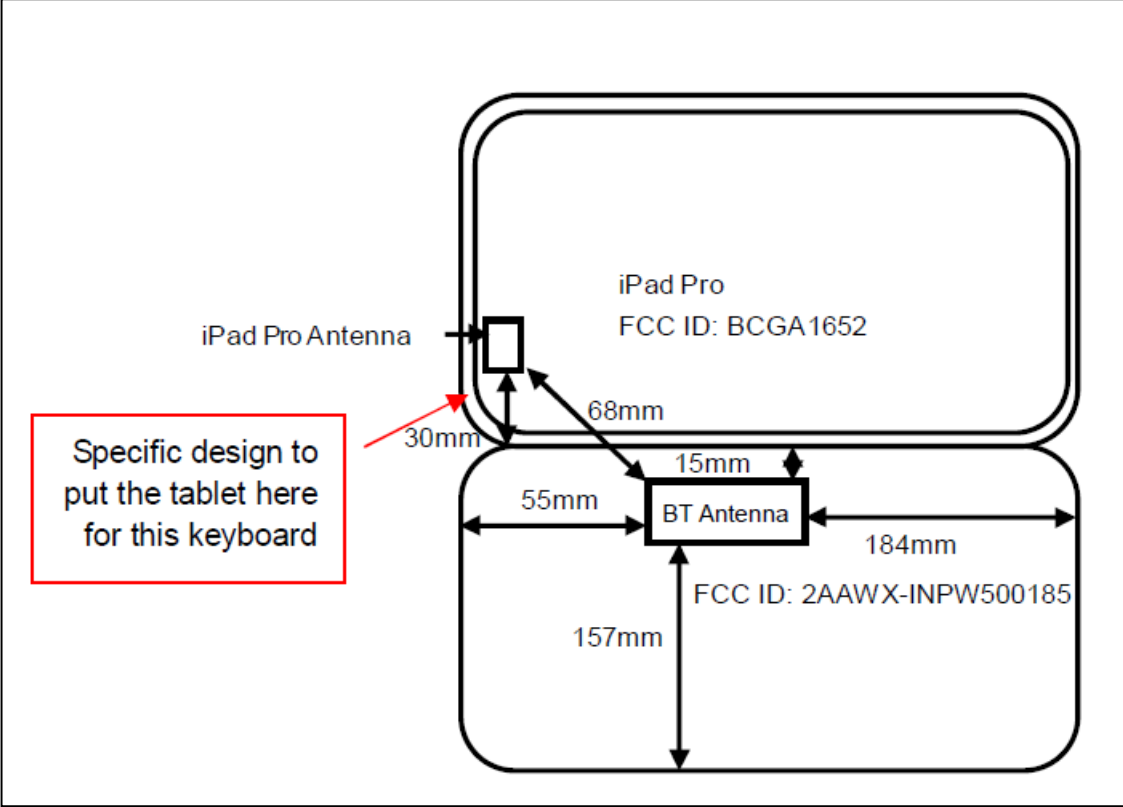
 $(\text{SAR1} + \text{SAR2})^{1.5} / \text{Ri} \leq 0.04$ 

Note: Ri is the separation distance between the peak SAR locations for the antenna pair in mm. Please refer to the drawings.

User use condition (Tablet Mode)



User use condition (Laptop Mode)



#### **4. Conclusion**

Since Source-base time average power is below SAR test exclusion power thresholds, the SAR evaluation is not required.

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