

Applicant: Titan International Technologies Ltd.  
Product Description: Wireless Firing Module  
Model No.: Titan-1  
FCC ID: 2ALI3T201700001

Frequency range: 2402MHz – 2480MHz  
Maximum Antenna gain: -7.683dBi  
Maximum EIRP Output Power: 0.0000724W

Following KDB 447498 D01, clause 4.3.1:

#### **4.3.1 Exemption from Routine Evaluation Limits – RF Exposure Evaluation**

RF Exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is less than 20 cm, except when the device operates as follows

For 100 MHz to 6 GHz and *test separation distances*  $\leq 50$  mm, the 1-g and 10-g SAR *test exclusion thresholds* are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  for 10-g extremity SAR, where

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

$$0.0724/(5) \cdot \sqrt{2.480} = 0.023 < 3$$

Thus for <20cm portable usage, the SAR exclusion condition is fulfilled and SAR evaluation is not required for a separation distance of 5mm or more.