



RF Exposure Evaluation

FCC ID: XUJCRT511SV2

According to KDB 447498 D04 Interim General RF Exposure Guidance V01 . and part 2.1093.

EUT Specification

Product Name:	SMART TPMS DIAGNOSTIC SYSTEM
Trade Mark:	LAUNCH
Model/Type Reference:	Creader TPMS 511S V2
Listed Model(s):	Creader TPMS 5011 V2
Model Differences:	All these models are identical in the same PCB, layout, electrical circuit and enclosure. The difference is the color of the plastic sleeve.
Frequency Band (Operating)	RF ID: 125kHz
Device Category	☒ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☐ Fixed (>20cm separation) ☐ Others ____
Antenna Diversity	☒ Single antenna ☐ Multiple antennas ☐ TX diversity ☐ RX diversity ☐ TX/RX diversity
Antenna Gain (Max)	0dBi

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For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn

**Measurement Result**

$$e_{irp} = p_t \times g_t = (E \times d)^2 / 30$$

where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m, --- $10^{((dBuV/m)/20)/10^6}$

d = measurement distance in meters (m), --- 3m

$$\text{So } p_t = (E \times d)^2 / (30 \times g_t)$$

125kHz Field strength = 75.03 dBuV/m @3m

Ant gain 0dBi, Ant numeric gain = 1

$$\text{So } p_t = \{[10^{(75.03/20)/10^6} \times 3]^2 / (30 \times 1)\} \times 1000 \text{ mW} = 0.01 \text{ mW}$$

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance.

*****THE END*****