## FCC Part 15.247 Transmitter Certification

FCC ID: TEB-HUNTTS764

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2.4 GHz ISM Band
Direct Sequence Spread Spectrum Transmitter

## **RF Exposure Information**

FCC ID: TEB-HUNTSU764

FCC Rule Part: 15.247

RF Exposure Information FCC ID: TEB-HUNTTS764
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## **General Information:**

Applicant: Hunt Technologies, LLC

FCC ID: TEB-HUNTSU764 Device Category: Mobile

Environment: General Population/Uncontrolled Exposure.

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## **Technical Information 2400 MHz ZigBee:**

Operating Configuration: Fixed mounted

Antenna Type: PCB Inverted F ¼-Wave Monopole Antenna Gain: 5.15 dBi (Theoretical maximum) Transmitter Conducted Power: 19.00 dBm Maximum System EIRP: 24.15 dBm

Exposure Conditions: Greater than 20 centimeters

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**MPE Calculation** The Power Density (mW/cm<sub>2</sub>) is calculated as follows:

Where: S = power density (in appropriate units, e.g.  $mW/cm_2$ ) P = power input to the antenna (in appropriate units, e.g., <math>mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

MPE CALCULATIONS FOR MOBILE EQUIPMENT							
Transmit Frequency (MHz)	Condu cted Power (dBm)	Conducte d Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	Distance (cm)	Power Density (mW/cm <sub>2</sub> )	Power Density Limit (mW/cm <sub>2</sub> )
2405	19.00	79.43	5.15	3.273	20	0.0683	1.00

**Installation Guidelines** The installation manual should contain text similar to the following advising how to install the equipment to maintain compliance with the FCC RF exposure requirements:

**RF Exposure** In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 centimeters will be maintained.

**Conclusion** This device complies with the MPE requirements by providing adequate separation between the device, any radiating structure and the general population.