

**Environmental evaluation and exposure limit according to FCC CFR 47part 1,  
§1.1307, §1.1310**

The EasyST transceiver is classified as mobile, the calculation was done for power density at 20 cm distance.

Limit for power density for general population/uncontrolled exposure is 1 mW/cm<sup>2</sup> for 1500 -100000 MHz frequency range.

The power density  $P$  (mW/cm<sup>2</sup>) =  $P_T / 4\pi r^2$ , where

$P_T$  is the transmitted power, which is equal to the peak transmitter output power plus maximum antenna gain. The maximum equivalent isotropically radiated power EIRP is

$$P_T = 22.5 \text{ dBm} + 9 \text{ dBi} = 31.5 \text{ dBm} = 1413 \text{ mW}, \text{ where}$$

22.5 dBm is the EUT maximum output power,  
9 dBi – antenna gain.

The power density  $P$  at 20 cm (minimum safe distance, required for mobile devices), calculated as follows:

$$P = 1413 \text{ mW} / 4\pi (20 \text{ cm})^2 = 0.28 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

General public cannot be exposed to dangerous RF level.