## Exposure limit according to §15.247(i)

The PG Modem iQ Remote is classified as a mobile device.

The FCC limit for power density for general population/uncontrolled exposure is f/1500 mW/cm<sup>2</sup> for 300 – 1500 MHz frequency range:

P = 912.75/1500 = 0.61 mW/cm<sup>2</sup>

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

P<sub>T</sub> is the transmitted power, which is equal to the peak transmitter output power 12.29 dBm plus maximum antenna gain 2 dBi, the maximum equivalent isotropically radiated power EIRP is

P<sub>T</sub> = 12.29 dBm + 2 dBi = 14.29 dBm = 26.85 mW.

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

Compliance with FCC limit: 26.85 mW /  $4\pi$  (20 cm) <sup>2</sup> = 0.0053 mW/cm<sup>2</sup> << 0.61 mW/cm<sup>2</sup>

General public cannot be exposed to dangerous RF level.