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

FCC ID: 2AWXX-ARRU14885CVT

The transceiver is classified as fixed, the calculation was done to check a safe distance.

Limit for power density for general population/uncontrolled exposure is 1  $\,$  mW/cm $^2$  for 1500 -100000 MHz frequency range.

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

P<sub>T</sub> 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

$$P_T = 28.72 \text{ dBm} + 17.9 \text{ dBi} = 46.62 \text{ dBm} = 45919 \text{ mW}, \text{ where}$$

The minimum safe distance "r", where RF exposure does not exceed FCC permissible limit, is

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 45919 / 12.56 \} = 60.5 cm.$$

A warning about a safe distance is contained in the user manual.