Airspan Networks Inc. FCC ID:PIDMMAX0707

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

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

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

 $P = 700/1500 = 0.47 \text{ mW/cm}^2$ 

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

 $P_T = 41.6 \text{ dBm} + 13.5 \text{ dBi} = 55.1 \text{ dBm} = 323594 \text{ mW}$ , where

41.6 dBm is the EUT maximum output power,

13.5 dBi – antenna gain.

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

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 323594 / (0.47 x12.56) \} = 234 cm.$$

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