Airspan Networks Inc. FCC ID:PIDASMAX3700

## 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 1  $\,\mathrm{mW/cm^2}$  for 1500 -100000 MHz frequency range.

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

$$P_T = 19.6 \text{ dBm} + 19.5 \text{ dBi} = 39.1 \text{ dBm} = 8128 \text{ mW}$$
, where

19.6 dBm is the EUT peak output power, 19.5 dBi – antenna gain.

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

$$r = sqrt \{ PT / (Px4\pi) \} = sqrt \{ 8128 / 12.56 \} = 25.4 cm.$$

General public cannot be exposed to dangerous RF level.