



5. Environmental evaluation and exposure limit according to FCC part 1, §1.1307, §1.1310

Limit for power density for general population/uncontrolled exposure is 1(mW/cm²) or 10 (W/m²).

The power density calculation is $S = (Pt / 4\pi r^2)$.

Where:

Pt - The transmitted power (EIRP) (mW)

r - The distance from the unit. (cm)

The limit 1(mW/cm²) can be calculated from the above based on the following data:

Pt- the transmitted power which is equal to the peak output power 23.7 dBm plus external antenna gain 28 dBi . The maximum peak EIRP = 51.7 dBm = 147910 mW

Maximum allowed distance "r", where RF exposure limits may not be exceeded,

$r = \text{SQRT}(147910/4\pi)$ and is more than 108.6 cm from the antenna.

6. EUT test configuration

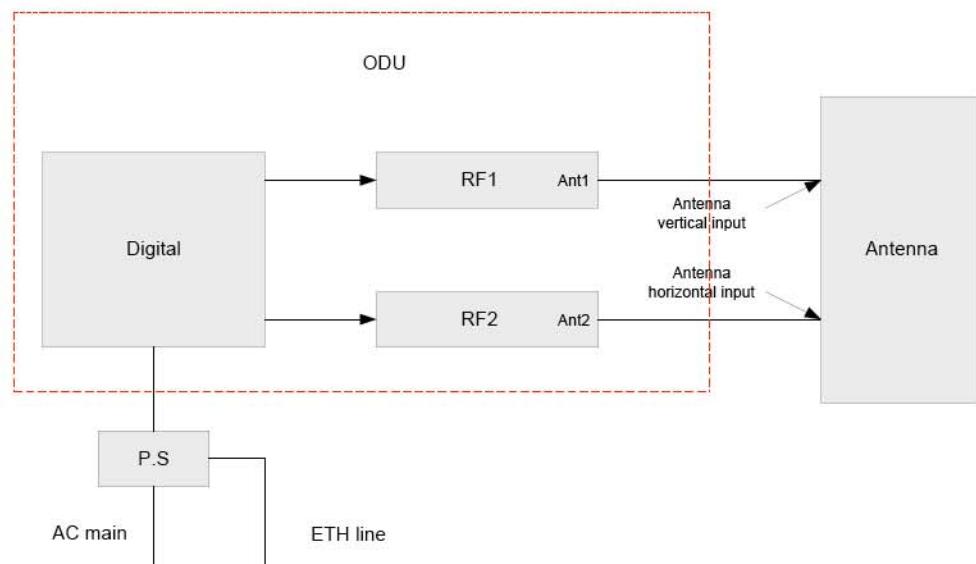


Fig. 1. EUT block diagram.