

Calculation and sample for Confirmation

The maximum measured power output is 770 mW (1900MHz) /1440mW (850MHz) , the maximum antenna gain is 3 dBi.

The maximum permissible exposure is defined in 47 CFR 1.1310 with 1 mW/cm².

The transmitter is using indoor antennas that operate at 20 cm or more from nearby persons.

The maximum permitted level is calculated using the general equation:

$$S = P \cdot G / 4\pi R^2$$

P = 12mW (1900MHz) 24 mW (850MHz)

G = 3 dBi

R = 20 cm

π = 3.1416

Solving for S, the power density at 20 cm is 0.4596 mW/cm². (1900MHz) , the power density at 20 cm is 0.8594 mW/cm². (850MHz)

So The power density limit is 1 mW/cm² for GSM1900 and 1/1500 mW/cm² for GSM850 is kept.

Please contact us if you have any additional questions.

Best Regards

Morlab

Lan Ya Qin