

Module evaluated for RF radiation exposure according to the provisions of FCC §2.1091, MPE guidelines identified in FCC §1.1310 and FCC KDB 447498:2015.

Limits for General Population/Uncontrolled Exposure: 47 CFR 1.1310 Table 1 (B)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

Where f is in MHz

The worst-case scenario is provided at 902.2 MHz.

The maximum power density exposure is $f/1500$:

$S = 0.60147 \text{ mW/cm}^2$, for uncontrolled exposure

Maximized Radiated power measurements @ 3 meter distance with both antennas are reported below. The worst-case value is in bold.

For 3 meter distance (As per ANSI C63.10)

$$\text{EIRP [dBm]} = E [\text{dB}\mu\text{V/m}] - 95.2$$

Where: E, Max. Radiated Field Strength

TX	Frequency (MHz)	Max. Radiated Field Strength 100% Duty Cycle (dB μ V/m)	Max. EIRP (dBm)	EIRP 100% Duty Cycle (mW)
PCB Antenna Gain: -0.5 (dBi)	902.2	73.68	-21.52	0.00705
External Antenna Gain: 3 (dBi)	902.2	91.8	-3.4	0.46

