

APPENDIX A: RF EXPOSURE COMPLIANCE

FCC Rules and Regulations Part 1.1307, 1.1310, 2.1091, 2.1093:

From FCC 1.1310 Table 1B, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm². The actual power density for the EUT with the antenna options is calculated as shown below. The EUT is a professionally installed, fixed, point-to-point operating system.

Note that the lower power setting of 16.4 dBm / 0.043 W must be used with the higher gain antennas.

$$S = (P \times G) / (4 \times \pi \times d^2)$$

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Antenna Manufacturer	Antenna Type	Antenna Model	Gain (dBi)	Numeric Gain	Power (W)	Separation Distance (m)	Power Density (W/m ²)	Power Density (mW/cm ²)
Winncom Technologies, Inc.	Patch	WRO2400-135H	13.5	22.4	0.28	0.23	9.4	0.94
Radio Waves, Inc.	Standard Parabolic	SP2-2.4	21.3	135	0.043	0.23	8.7	0.87
Radio Waves, Inc.	Grid Parabolic	G3-2.4	24.5	282	0.043	0.32	9.4	0.94

WARNING:

It is the responsibility of the professional installer to ensure that when using the outdoor antennas in the United States (or where FCC rules apply), only the antennas specified above may be used. The use of any other antenna is expressly forbidden in accordance with FCC rules CFR 47 part 15.204.

Proposed RF exposure safety information to include in User's Manual:

CAUTION: Antenna Installation Requirement

The antenna(s) used for this transmitter must be installed by a professional to provide a separation distance of at least 32 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.