

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 for a device operating at this frequency range is 0.61 mW/cm². The actual power density for the EUT with the antenna is calculated as shown below at 20 cm. The EUT is a mobile device per 2.1091 operating at 902 – 928 MHz.

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

where:

S = power density

P = transmitter conducted power in (W)

G = antenna numeric gain

d = distance to radiation center (m)

Antenna Manufacturer/ Model	Antenna Type	Gain (dBi)	Numeric Gain	Power (W)	Separation Distance (m)	Power Density (W/m ²)	Power Density (mW/cm ²)
Paxar/BW-S9W2	Dipole	-15.1	0.03	.88	0.2	0.05	0.005

WARNING:

It is the responsibility of the professional installer to ensure that when using the outdoor antenna in the United States (or where FCC rules apply), only the antenna 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 to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.