

RF Exposure Calculations:

The following information provides the minimum separation distance for each of the antennas provided with the **COMPACTRF-900** module, as calculated from **FCC OET 65**

Appendix B, Table 1B

Guidelines for General Population/Uncontrolled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power and antenna gain. The formula used was:

$$S = (P_o * G) / (4 * \pi * r^2)$$

- Where S = 0.62 mW/cm² for 928 MHz (from F/1500)

Item	Antenna	Power (W)	Distance (cm)
1	83121 3.5 dB, Transit Antenna 900 MHz	1.0	17
2	83122 3.5 dB, 900 MHz Transit Antenna	1.0	17
3	83125 3dB Omni Antenna 900 MHz	1.0	16
4	83132 6 dB 900 MHz Omni-directional Antenna	1.0	23
5	83100 2.5 Rubber Ducky 900 MHz	1.0	15
6	83130 6 dB, 900 MHz Yagi	1.0	23
7	83140 11 dB, 900 MHz Yagi	0.1	13
8	14 dB, 900 MHz Yagi	0.1	18

The following statement will be presented in the **COMPACTRF-900** User Manual:

WARNING

In order to comply with the FCC/IC adopted RF exposure requirements, this transmitter system will be installed by the manufacturer's resaler professional. Installation of all antennas must be performed in a manner that will provide at least 23 cm clearance from the front radiating aperture, to any user or member of the public.