RF Exposure

FCC ID: M7U5001L

Since the transmit antenna is a trace on the circuit board and power is not specified, the Effective Radiated power was calculated from the field strength of 90 dBuV/m at 3 meters.

Effective Radiated Power (Watts) ERP = $(VxD)^2/30$
Where: V = Volts/meter
D = Antenna Distance in meters

Since the ERP is less than one mW, we will use one mW for the calculations

The following information provides the minimum separation distance for the EUT, 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 EUT considering maximum power and antenna gain. The formulas were used:

GP limit is = 0.62 mW/cm^2 for 928 MHz (from F/1500)
S= E^2/3770 mW/cm^2
d = ((ERP*30)/3770*S))^0.5

Freq. MHz	S GP limit mW/cm^2	Maximum ERP watts	E V/m	MSD d meters
925	0.616667	0.001	48.2	0.004

GP is the limit for general Population/Uncontrolled Exposure
MSD is the minimum Seperation Distance

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less