



### Maximum Permissible Exposure Evaluation

The RF exposure calculation for the co-locating of the following three (3) Two Technologies FCC Certified module/devices:

1. FCC ID: RYJ-PLAT2008, embedded BGB203 BT radio in the FC-2500 case
2. FCC ID: RYJ-SDMCF10G, WiFi radio module
3. FCC ID: AZP-FDQ02T, radio module (in the RS-1 Pack).

Based on the FCC OET Bulletin 65, Edition 97-01, the following formula is used to calculate RF exposure at a distance of 20cm from the transmitting antenna:

$$S = PG/4\pi R^2$$

Where:

S = Power Density (mW/cm<sup>2</sup>)

P = Power output to the antenna

G = Antenna Numeric Gain

R = Distance from the transmitting antenna (cm)

Note: The RF transmit power and the antenna gain used are from the original test reports submitted to the FCC for certification.

FCC ID	Power Output P (mW)	Antenna Gain (dBi)	Antenna Gain G	Power Density S (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Percentage of Limit
RYJ-PLAT2008	1.07	0	1	0.00021	1	0.021%
RYJ-SDMCF10G	80	0	1	0.0159	1	1.59%
AZP-FDQ02T	61	2.14	1.64	0.0199	1	1.99%

Total RF Exposure Percentage: 3.601%

**Conclusion:** The total RF exposure percentage is 3.6% of the allowable limit, therefore the RF exposure calculation for the co-locating of the (3) Two Technologies FCC certified modules/devices complies with the FCC MPE requirements.

$$\text{dBi} = 10 \log_{10}(\text{G})$$