Maximum Permissible Exposure Evaluation

The RF exposure calculation for the co-locating of the following two (2) 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

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:

 $S = Power Density (mW/cm^2)$

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	Antenna	Antenna	Power	Limit	Percentage
	Output	Gain	Gain	Density		of Limit
	P		G	S		
	(mW)	(dBi)		(mW/cm^2)	(mW/cm^2)	
RYJ-PLAT2008	1.07	0	1	0.00021	1	0.021%
RYJ-SDMCF10G	80	0	1	0.0159	1	1.59%

Total RF Exposure Percentage: 1.611%

Conclusion: The total RF exposure percentage is 1.611% of the allowable limit, therefore the RF exposure calculation for the co-locating of the (2) Two Technologies FCC certified modules/devices complies with the FCC MPE requirements.

 $dBi = 10_{log10}(\mathbf{G})$