

# MPE CALCULATION

FCC ID: S9GT710

RF Exposure Requirements:	47 CFR §1.1307(b)
RF Radiation Exposure Limits:	47 CFR §1.1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band: 2.4GHz	2412-2462 MHz
EUT Frequency Band: 5 GHz	5180- 5320MHz, 5500-5720MHz, 5745-5825MHz 5210-5290MHz, 5530-5610MHz, 5690-5775MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm <sup>2</sup>

**Equation:**  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
Where, S = Power Density  
P = Power Input to Antenna  
G = Antenna Gain  
R = distance to the center of radiated antenna

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Prediction distance 25cm

Array Gain = 3dBi

## EUT: ZoneFlex T710 Access Point, model: T710s

(2.4GHz Band): Power = 26.17 dBm, Array Gain + Antenna Gain = 9 dBi, Power density = 0.418mW/ cm<sup>2</sup>

(5 GHz Band): Power = 24.69 dBm, Array Gain + Antenna Gain = 11 dBi, Power density = 0.472mW/ cm<sup>2</sup>

Total Ratio=  $(P_{2.4GHz}/1) + (P_{5GHzUNI}/1) = 0.418 \text{ mW/ cm}^2 + 0.472 \text{ mW/ cm}^2 = 0.890 \text{ mW/ cm}^2$

The Above Result had shown that the Device complied with MPE requirement.

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Date: 01/08/ 2016