Maximum Permissive Exposure

FCC ID: JI5-RT359333DB5
Product Name: 5GHz 802.11n 3T3R wifi module
Model No: SMC-RT359333DB5

5.2GHz band:
SMC Networks Inc declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation. Based on safety distance 20cm, the antenna gain of 5GHz is 1.9 dBi, and the power output is 788.86mW, the power density is 0.0132 mW/cm^2.

RF Exposure Calculations:
$S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where S = Power Density in mW/cm^2
P = 16.34dBm =43.052mW
G = 1.9 dBi = 1.548 Numerical
r = 20cm

$S = 43.052*1.548 / 4*\pi* 20^2 = 0.0132mW/cm^2$

5.8GHz band:
SMC Networks Inc declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation. Based on safety distance 20cm, the antenna gain of 5GHz is 1.9 dBi, and the power output is 788.86mW, the power density is 0.2429 mW/cm^2.

RF Exposure Calculations:
$S = (P * G) / (4 * \pi * r^2)$ or $r = \sqrt{(P * G) / (4 * \pi * S)}$

Where S = Power Density in mW/cm^2
P = 28.97dBm =788.86mW
G = 1.9 dBi = 1.548 Numerical
r = 20cm

$S = 788.86*1.548 / 4*\pi* 20^2 = 0.2429mW/cm^2$

Sincerely Yours,

Mr. Ben Cheng
Manager
AUDIX Technology Corporation