Maximum Permissive Exposure

FCC ID: 2AE3B-AEX-AR95X

Product Name: 450Mbps Three Chain, Dual-Band, 802.11abgn WLAN, Full Size

MiniPCI Express Module

Model No: (1)AEX-AR95X (2)AEX-AR9590-NX (3)AEX-AR9590-NI

(4)AEX-AR9590-NIB (5)AEX-AR9580-NX

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

| rabio i Emilio foi Maximani i Offinocible Expeddic | | | | | | | | | |
|---|----------------------------------|----------------------------------|---------------------------|---------------------------|--|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Average Time (Minutes) | | | | | |
| (A) Limits For Occupational / Control Exposures (f = frequency) | | | | | | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 | | | | | |
| 300-1500 | | | f/300 | 6 | | | | | |
| 1500-100,000 | | | 5.0 | 6 | | | | | |
| (B) Limits For General Population / Uncontrolled Exposure (f = frequency) | | | | | | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | | | |
| 300-1500 | | | f/1500 | 30 | | | | | |
| 1500-100,000 | | | 1.0 | 30 | | | | | |

Table 1 Limits for Maximum Permissible Exposure

VoxMicro LTD. 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.

2. MPE Calculation

2.1. WIFI 2.4G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **5.984Numerical**, and the highest power output (P) is **446.684mW**, the power density (S) is **0.531768mW/cm²**

RF Exposure Calculations:
S = (P * G) / (4*
$$\pi$$
 * r²) or r = $\sqrt{(P * G) / (4* \pi * S)}$

Where:

| Based on safety distance (r)= | 20 | 0 cm | | |
|-----------------------------------|-----------------|-------------------|----------|--------------------|
| Highest Power Output (P)= | 26.50 | 0 dBm = | 446.684 | mW |
| Antenna Gain (G)= | 7.7 | 7 dBi = | 5.984 | Numerical |
| MPE (S) = (P*G) / $(4*\pi*r^2)$ = | = (446.684*5.98 | $(4^*\pi^*20^2)=$ | 0.531768 | mW/cm ² |

2.2. WIFI 5G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **9.484Numerical**, and the highest power output (P) is **70.795mW**, the power density (S) is **0.133575mW/cm²**.

RF Exposure Calculations:
S = (P * G) / (4*
$$\pi$$
 * r²) or r = $\sqrt{(P * G) / (4* \pi * S)}$

Where:

| Based on safety distance (r)= | 20 c | cm | | |
|------------------------------------|-------------------|--------------------------|--------|--------------------|
| Highest Power Output (P)= | 18.50 d | dBm = | 70.795 | mW |
| Antenna Gain (G)= | 9.77 d | dBi = | 9.484 | Numerical |
| MPE (S) = $(P*G) / (4*\pi*r^2) = $ | (70.795*9.484)/(4 | $\pi^* \pi^* 20^2 = 0.1$ | 33575 | mW/cm ² |

Sincerely Yours,

Mr. Ben Cheng

Manager

AUDIX Technology Corporation