

Maximum Permissive Exposure

FCC ID: 2AC23-WXT3A
Product Name: WIFI Module
Model No: WXT3AM2001

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).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	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

Sony Group Corporation 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.

Mode	Max Output Power (dBm)	Tune-up factor	Tune-up max power (dBm)
Wireless 2.4G	25.65	1.364	27
Wireless 5G	15.98	1.264	17
Wireless 6G	8.928	1.374	10.31

**The value presented in the MPE is the maximum tune-up power.

1. MPE Calculation

● Wireless 2.4G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.301Numerical**, and the highest power output (P) is **501.187mW**, the power density (S) is **0.229428mW/cm²**.

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where :

Based on safety distance (r)=	20 cm
Highest Power Output (P)=	27 dBm = 501.187 mW
Antenna Gain (G)=	3.62 dBi = 2.301 Numerical
MPE (S) = (P*G) / (4*π*r ²) =	= (501.187*2.301)/(4*π*20²)= 0.229428 mW/cm²

- Wireless 5G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.767Numerical**, and the highest power output (P) is **50.119mW**, the power density (S) is **0.027589mW/cm²**.

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where :

Based on safety distance (r)=	20 cm
Highest Power Output (P)=	17.0 dBm = 50.119 mW
Antenna Gain (G)=	4.42 dBi = 2.767 Numerical
MPE (S) = (P*G) / (4* π *r ²) =	= (50.119*2.767)/(4*π*20²)= 0.027589 mW/cm²

- Wireless 6G MPE

Based on safety distance (r) **20cm**, the antenna gain (G) is **2.944Numerical**, and the highest power output (P) is **10.740mW**, the power density (S) is **0.006290mW/cm²**.

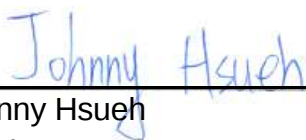
RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where :

Based on safety distance (r)=	20 cm
Highest Power Output (P)=	10.31 dBm = 10.740 mW
Antenna Gain (G)=	4.69 dBi = 2.944 Numerical
MPE (S) = (P*G) / (4* π *r ²) =	= (10.740*2.944)/(4*π*20²)= 0.006290 mW/cm²

Sincerely Yours,



Mr. Johnny Hsueh
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