Maximum Permissive Exposure

FCC ID: AZPT4PX-24G
Product Name: Radio Control
Model No: T4PX

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).

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

2. MPE Calculation
Futaba 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.

In Radio Technology: T-FHSS Modulation
Based on safety distance 20cm, the antenna gain is 2.14 dBi, and the power output is 49.705mW, the power density is $0.0162 mW/cm^2$

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=16.964dBm=49.705mw
G =2.14 dBi=1.637 Numerical
r = 20cm

$S = 49.705*1.637/ 4*\pi * 20^2=0.0162 mW/cm^2$

In Radio Technology: S-FHSS Modulation
Based on safety distance 20cm, the antenna gain is 2.14 dBi, and the power output is 38.098mW, the power density is 0.0124mW/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=15.809dBm=38.098mw
G =2.14 dBi=1.637 Numerical
r = 20cm

$S = 38.098*1.637/ 4*\pi * 20^2=0.0124$ mW/cm^2

In Radio Technology: FASST Modulation
Based on safety distance 20cm, the antenna gain is 2.14 dBi, and the power output is 28.642mW, the power density is 0.0093mW/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=14.57dBm=28.642mw
G =2.14 dBi=1.637 Numerical
r = 20cm

$S = 28.642*1.637/ 4*\pi * 20^2=0.0093$ mW/cm^2

Sincerely Yours,

Ben Cheng

Mr. Ben Cheng
Manager
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