



MPE/RF EXPOSURE REPORT

FCC CFR 47 Part 1.1310

Report No.: RDWN72-U2 FCC MPE Rev A

Company: Radwin

Model Name: AP0263510, AP0263530, AP0263540

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To: FCC CFR 47 Part 1.1310

Report Serial No.: RDWN72-U2 FCC MPE Rev A

This report supersedes: NONE

Applicant: Radwin
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1. MAXIMUM PERMISSIBLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = \text{EIRP}/(4*\pi*d^2)$$

$$\text{EIRP} = P * G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Numeric Gain = $10^{(G \text{ (dBi)}/10)}$

These calculations represent worst case in terms of the exposure levels.

Limits for Occupational/Controlled Exposure for professional installation: 5 mW/cm²

Point to Point

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Safe Distance
5150.0 - 5250.0	13.00	19.95	29.11	814.70	4.78	5.00	16.08	5.00
5725.0 - 5850.0	32.00	1584.89	13.31	21.43	6.757	5.00	23.25	5.00

***Note:** The minimum safe distance for Point to Point operation is calculated as 24 cm.

Point to Multi-Point

Freq. Band (MHz)	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Power Density (mW/cm ²) @ 20cm	Power Density Limit (mW/cm ²)	Min Calculated safe distance for Limit (cm)	Calculated Power Density (mW/cm ²) @ Safe Distance
5150.0 - 5250.0	13.00	19.95	22.99	199.07	0.79	5.00	7.95	5.00
5250.0 - 5350.0	13.00	19.95	16.77	47.53	0.189	5.00	3.88	5.00
5470.0 - 5720.0	13.00	19.95	16.70	46.77	0.186	5.00	3.85	5.00
5725.0 - 5850.0	13.00	19.95	22.80	190.55	0.756	5.00	7.78	5.00

Note: for mobile or fixed location transmitters the minimum separation distance is 20cm, even if calculations indicate the MPE distance to be less.

Specification

Maximum Permissible Exposure Limits

FCC §1.1310 Limit = 5mW / cm² from 1.310 Table 1



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