

Company: Radwin Ltd

Test of: AP0158770 Wireless Module

To: FCC CFR 47 Part 15 Subpart E 15.407
Industry Canada RSS-247 Issue 1

Report No.: RDWN39-U3a MPE Rev A

MPE TEST REPORT



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FROM



Test of: Radwin Ltd. AP0158770
to

To: FCC CFR 47 Part 15 Subpart E 15.407
Industry Canada RSS-247 Issue 1

Test Report Serial No.: RDWN39-U3a MPE Rev A

This report supersedes: NONE

Applicant: Radwin
27 Habarzel Street
Tel Aviv 69710
Israel

Product Function: 5 GHz Wireless Module

Issue Date: 7th December 2015

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
Fax: +1 (925) 462-0306
www.micomlabs.com



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1. MAXIMUM PERMISSABLE EXPOSURE

Calculations for Maximum Permissible Exposure Levels

Power Density = P_d (mW/cm²) = $EIRP / (4 * \pi * d^2)$

$EIRP = P * G$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

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

Because the EUT belongs to the General Population/Uncontrolled Exposure the limit of power density is 1.0 mW/cm²

Worst case results for each antenna type 5725-5850 MHz

Antenna Model	Type	Ant Gain (dBi)	Numeric Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated Safe Distance @ 1mW/cm ² Limit (cm)	Minimum Distance (cm)
RW-9401-5002	Shark Fin Monopole	11.5*	14.13	24.44	278.0	17.7	20.0
RW-9061-5002	Sector Dual Pole 60 Deg	15.5*	35.48	20.41	109.9	17.6	20.0
RW-9622-5001	Flat Panel Dual Pole External	28*	630.96	29.91	979.5	221.8	221.8
RW-9732-4958	Dual Pole Dish	31*	1258.93	29.91	979.5	313.3	313.3
AM0156430	Integrated Smart Flat Panel	20.5	112.2	29.91	979.5	93.5	93.5

* Gain includes 1 dB feeder loss for external antennas

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



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Specification
Maximum Permissible Exposure Limits

FCC §1.1310 Limit = $1\text{mW} / \text{cm}^2$ from 1.310 Table 1

RSS-Gen §3.2 In addition to RSS-Gen, the requirements in Radio Standards Specification RSS-102 shall be met.

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575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com