



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2IR825D1

Project No. : 1303C082
Equipment : Wireless router
Model : DIR-825
Applicant : D-LINK Corporation
Address : No.289, Sinhu 3rd Rd., Neihu District Taipei City
114, Taiwan, R.O.C
According: : FCC Guidelines for Human Exposure IEEE C95.05.1

Neutron Engineering Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Airgain))	N2430GND	Integral	N/A	3	
2	Airgain))	N2430GND	Integral	N/A	3	



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TEST RESULTS

EUT:	Wireless router	Model Name :	DIR-825
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	12.93	19.6336	0.00779741	1	Complies
3	1.9953	12.94	19.6789	0.00781538	1	Complies
3	1.9953	13	19.9526	0.00792411	1	Complies

EUT:	Wireless router	Model Name :	DIR-825
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48-ANT 1		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	9.05	8.0353	0.00319117	1	Complies
3	1.9953	8.6	7.2444	0.00287707	1	Complies
3	1.9953	9.15	8.2224	0.00326551	1	Complies



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EUT:	Wireless router	Model Name :	DIR-825
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48-ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	9.12	8.1658	0.00324303	1	Complies
3	1.9953	8.79	7.5683	0.00300573	1	Complies
3	1.9953	9.11	8.1470	0.00323557	1	Complies

Note: the calculation distance is 20cm.