



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: W59XWR600

Project No. : 1401C155
Equipment : Dual Band Wireless 600N Router
Model Name : XWR-600
Applicant : Luxul Wireless
Address : 14203 Minuteman Dr, Suite 201, Draper, Utah, United States
Manufacturer : Luxul Wireless
Address : 14203 Minuteman Dr, Suite 201, Draper, Utah, United States

According: : **FCC Guidelines for Human Exposure IEEE C92.76**

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	LUXUL	Q5095	Dipole	N/A	6.08	TX/RX
2	LUXUL	Q5096	Dipole	N/A	6.08	TX/RX

Operating Mode / TX Mode	1TX	2TX
802.11a	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)



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TEST RESULTS

EUT:	Daul Band Wireless 600N Router	Model Name :	XWR-600
Temperature:	25 °C	Relative Humidity:	55 %
Pressure:	AC 120V/60Hz		
Test Mode :	TX A Mode		

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
6.08	4.0551	20.11	102.5652	0.08278476	1	Complies
6.08	4.0551	20.2	104.7129	0.08451823	1	Complies
6.08	4.0551	20.46	111.1732	0.08973262	1	Complies

EUT:	Daul Band Wireless 600N Router	Model Name :	XWR-600
Temperature:	25 °C	Relative Humidity:	55 %
Pressure:	AC 120V/60Hz		
Test Mode :	TX N-20M Mode-Total		

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
6.08	4.0551	22.65	184.0772	0.14857658	1	Complies
6.08	4.0551	22.69	185.7804	0.14995135	1	Complies
6.08	4.0551	22.69	185.7804	0.14995135	1	Complies

EUT:	Daul Band Wireless 600N Router	Model Name :	XWR-600
Temperature:	25 °C	Relative Humidity:	55 %
Pressure:	AC 120V/60Hz		
Test Mode :	TX N-40M Mode_Total		

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
6.08	4.0551	22.6	181.9701	0.14687584	1	Complies
6.08	4.0551	22.71	186.6380	0.15064349	1	Complies

Note: The calculated distance is 20cm.