

FCC RF EXPOSURE REPORT

FCC ID: XU8TEW723BRM

Project No. : 1509C151A
Equipment : N300 WiFi ADSL 2+ Modem Router
Model : TEW-723BRM
Applicant : TRENDnet, Inc.
Address : 20675 Manhattan Place, Torrance, CA 90501

According: : FCC Guidelines for Human Exposure IEEE C95.1

B T L I N C .

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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

Ant.	Brand	P/N	Antenna Type	Connector	Gain(dBi)	Note
1		RF21C00645A	Dipole	N/A	5.00	TX/RX
2		RF21C00958A	Dipole	N/A	5.00	TX/RX

TEST RESULTS

EUT :	N300 WiFi ADSL 2+ Modem Router	Model Name :	TEW-723BRM
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B Mode_CH01/06/11_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
5	3.1623	18.12	64.8634	0.04083	1	Complies
5	3.1623	18.03	63.5331	0.03999	1	Complies
5	3.1623	18.42	69.5024	0.04375	1	Complies

EUT :	N300 WiFi ADSL 2+ Modem Router	Model Name :	TEW-723BRM
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G Mode_CH01/06/11_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
5	3.1623	15.38	34.5144	0.02172	1	Complies
5	3.1623	15.27	33.6512	0.02118	1	Complies
5	3.1623	15.19	33.0370	0.02079	1	Complies

EUT :	N300 WiFi ADSL 2+ Modem Router	Model Name :	TEW-723BRM
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20 Mode_CH01/06/11_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
5	3.1623	16.61	45.8142	0.02884	1	Complies
5	3.1623	16.88	48.7528	0.03069	1	Complies
5	3.1623	16.93	49.3174	0.03104	1	Complies

EUT :	N300 WiFi ADSL 2+ Modem Router	Model Name :	TEW-723BRM
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40 Mode_CH03/06/09_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
5	3.1623	14.37	27.3527	0.01722	1	Complies
5	3.1623	16.86	48.5289	0.03055	1	Complies
5	3.1623	14.08	25.5859	0.01610	1	Complies

Note: the calculated distance is 20 cm.