



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: X7DWL0187

Project No. : 1012C257
Equipment : USB WIRELESS LAN CARD
Model : WL0187;N300UA
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD
**Address : Building A1~A2 Lantian Science and Technology
Park, Xinyu Road Xinqiao Henggang Block Shajing
Street, Baoan District. Shenzhen City, China**

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

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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
1	HongLin	G009-3100 10-A	Dipole Antenna	R-SMA	1.5

TEST RESULTS

EUT:	USB WIRELESS LAN CARD	Model Name :	WL0187
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX B MODE CH01/CH06/CH11		

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
1.5	1.4125	10.48	11.1686	0.00314015	1	Complies
1.5	1.4125	10.65	11.6145	0.00326551	1	Complies
1.5	1.4125	10.55	11.3501	0.00319117	1	Complies



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EUT:	USB WIRELESS LAN CARD	Model Name :	WL0187
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX G MODE CH01/CH06/CH11		

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
1.5	1.4125	23.09	203.7042	0.05727306	1	Complies
1.5	1.4125	23.18	207.9697	0.05847233	1	Complies
1.5	1.4125	23.41	219.2805	0.06165245	1	Complies

EUT:	USB WIRELESS LAN CARD	Model Name :	WL0187
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11		

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
1.5	1.4125	24.92	310.4560	0.08728716	1	Complies
1.5	1.4125	24.99	315.5005	0.08870546	1	Complies
1.5	1.4125	24.92	310.4560	0.08728716	1	Complies

EUT:	USB WIRELESS LAN CARD	Model Name :	WL0187
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09		

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
1.5	1.4125	25.09	322.8494	0.09077168	1	Complies
1.5	1.4125	25.09	322.8494	0.09077168	1	Complies
1.5	1.4125	25.33	341.1929	0.09592910	1	Complies