



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: KA2SL6740BC2

Project No. : 1303C007
Equipment : Wireless VDSL2 4-port Ethernet Router
Model : DSL-6740B
Applicant : D-link Corporation
Address : 17595 Mt. Herrmann Fountain Valley California
United States

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

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



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.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	MAG.LAYERS	MSA-2715-2G4C1-A3	Integral Antenna	N/A	3.12	TX/RX
2	MAG.LAYERS	MSA-2715-2G4C1-A3	Integral Antenna	N/A	3.12	TX/RX

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R).

Operating Mode	1TX	2TX
TX Mode		
802.11b	V (ANT 1 or ANT 2)	-
802.11g	V (ANT 1 or ANT 2)	-
802.11n(20MHz)	-	V (ANT 1 & ANT 2)
802.11n(40MHz)	-	V (ANT 1 & ANT 2)



TEST RESULTS

EUT:	Wireless VDSL2 4-port Ethernet Router	Model Name :	DSL-6740B
Temperature:	24 °C	Relative Humidity :	60 %
Pressure:	1010 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
3.12	2.0512	21.37	137.0882	0.05596936	1	Complies
3.12	2.0512	21.58	143.8799	0.05874222	1	Complies
3.12	2.0512	21.22	132.4342	0.05406925	1	Complies

EUT:	Wireless VDSL2 4-port Ethernet Router	Model Name :	DSL-6740B
Temperature:	24 °C	Relative Humidity :	60 %
Pressure:	1010 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
3.12	2.0512	18.87	77.0903	0.03147389	1	Complies
3.12	2.0512	18.92	77.9830	0.03183834	1	Complies
3.12	2.0512	18.95	78.5236	0.03205903	1	Complies



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EUT:	Wireless VDSL2 4-port Ethernet Router	Model Name :	DSL-6740B
Temperature:	24 °C	Relative Humidity :	60 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M MODE /CH01, CH06, CH11 ANT 1+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
3.12	2.0512	20.07	101.6249	0.04149066	1	Complies
3.12	2.0512	19.94	98.6279	0.04026710	1	Complies
3.12	2.0512	20.24	105.6818	0.04314698	1	Complies

EUT:	Wireless VDSL2 4-port Ethernet Router	Model Name :	DSL-6740B
Temperature:	24 °C	Relative Humidity :	60 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M MODE /CH03, CH06, CH09 ANT 1+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
3.12	2.0512	17.13	51.6416	0.02108387	1	Complies
3.12	2.0512	17.21	52.6017	0.02147585	1	Complies
3.12	2.0512	17.21	52.6017	0.02147585	1	Complies

The evaluated distance is 20cm.