

FCC RF EXPOSURE REPORT

FCC ID: KA2COVRP2500A1

Project No. : 1708C071
Equipment : Whole Home Powerline Wi-Fi Extender, Whole Home Powerline Wi-Fi System
Model : COVR-P2500, COVR-P2502
Applicant : D-LINK Corporation
Address : 17595 Mt. Herrmann, Fountain Valley, California, United States 92708

According: : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

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

2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	CHANGSHU HONGBO	DB_ANT-1 TO IPEX	Dipole	N/A	3.11
2	CHANGSHU HONGBO	DB_ANT-1 TO IPEX	Dipole	N/A	3.11

5G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	CHANGSHU HONGBO	DB_ANT-1 TO IPEX	Dipole	N/A	3.94
2	CHANGSHU HONGBO	DB_ANT-1 TO IPEX	Dipole	N/A	3.94

TEST RESULTS

EUT:	Whole Home Powerline Wi-Fi Extender	Model Name :	COVR-P2500
Temperature:	25 °C	Relative Humidity:	60 %
Test Voltage:	AC 120V/60Hz		

2.4G WIFI

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
3.11	2.0464	29.38	866.9619	0.35314281	1	Complies

5G Band UNII-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
3.94	2.4774	24.61	289.0680	0.14254447	1	Complies

5G Band UNII-3

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
3.94	2.4774	24.42	276.6942	0.13644272	1	Complies

For 2.4G+5G simultaneous transmission MPE:

$$0.3531/1+0.1425/1=0.4956$$

Note: the calculated distance is 20 cm.