

FCC RF EXPOSURE REPORT

FCC ID: KA2COVRC1200A1

Project No. : 1711C179
Equipment : Dual Band Whole Home Wi-Fi System
Model : COVR-C1200, COVR-C1203, COVR-C1202
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:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	EmP317-B-S100(G)	FPC Internal	N/A	3	2.4G
					3	5G
2	N/A	EmP317-B-S100(G)	FPC Internal	N/A	3	2.4G
					3	5G
3	N/A	EmP108-B-S65(G)	FPC Internal	N/A	3	2.4G(RX only)

Note:

(1) The EUT supports the antenna with TX and RX diversity functions.

For IEEE 802.11 b/g/n20/n40 mode (2TX/3RX):

Ant. 1 and Ant. 2 can be used as transmitting/receiving antenna.

Ant. 3 can be used as receiving antenna.

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

(2) Antenna Gain=3 dBi. This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain = GANT+10log(N)dBi, that is Directional gain=3+10log(2)dBi=6.01, So,the out power limit is 30-6.01+6=29.99, the power density limit for 2.4G is 8-6.01+6=7.99. The UNII-1 power density limit is 17-6.01+6=16.99, the UNII-3 power density limit is 30-6.01+6=29.99.

TEST RESULTS

EUT :	Dual Band Whole Home Wi-Fi System	Model Name :	COVR-C1200
Temperature :	25 °C	Relative Humidity:	55 %
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
6.01	3.9902	28.48	704.6931	0.55969	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
6.01	3.9902	26.91	490.9079	0.38990	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
6.01	3.9902	29.69	931.1079	0.73952	1	Complies

Note: the calculated distance is 20 cm.