

# FCC RF EXPOSURE REPORT

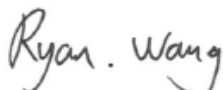
## FCC ID: KA2AP3712A1

**Project No.** : 2004H006  
**Equipment** : 20km Long Range 802.11ac Wireless Bridge  
**Brand Name** : D-Link Corporation  
**Test Model** : DAP-3712  
**Series Model** : N/A  
**Applicant** : D-Link Corporation  
**Address** : 17595 Mt. Herrmann, Fountain Valley, California United State 92708  
**Manufacturer** : D-Link Corporation  
**Address** : No.289, SinHu 3rd Rd., Neihi District Taiper City 114, Taiwan, R.O.C  
**Date of Receipt** : May 18, 2020  
**Date of Test** : May 18, 2020 ~ Jul. 01, 2020  
**Issued Date** : Jul. 20, 2020  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: SH2020051844, SH2020021842-1  
**Standard(s)** : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091  
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.



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**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue	Jul. 20, 2020

## 1. 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

For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	PCB	N/A	21
2	N/A	N/A	PCB	N/A	21

Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain=21.

For UNII-1:

The antenna were fixed point to point,so the power and PSD limit not need to be reduced.

For UNII-3:

The output power limit is 30-21.00+6=15.00, the power spectral density limit is 30-21.00+6=15.00.

## 2. TEST RESULTS

For 5GHz UNII-1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
21	125.89250	12	15.8489	0.39690	1	Complies

For 5GHz UNII-3:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
21	125.89250	12	15.8489	0.39690	1	Complies

Note: The calculated distance is 20 cm.  
Output power including tune up tolerance.

**End of Test Report**