

# FCC RF EXPOSURE REPORT

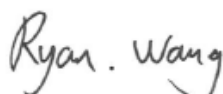
## FCC ID: KA2AP3712A1

**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**