

# FCC RF EXPOSURE REPORT

## FCC ID: XU8TEW740APBOV3

**Project No.** : 1911C149  
**Equipment** : 10 dBi Wireless N300 Outdoor PoE Access Point, 10 dBi Wireless N300 Outdoor PoE Preconfigured Point-to-Point Bridge Kit  
**Brand Name** : TRENDnet, Inc.  
**Test Model** : TEW-740APBO V3.0  
**Series Model** : TEW-740APBO2K V3.0  
**Applicant** : TRENDnet, Inc.  
**Address** : 20675 Manhattan Place, Torrance, CA 90501, USA  
**Manufacturer** : TRENDnet, Inc.  
**Address** : 20675 Manhattan Place, Torrance, CA 90501, USA  
**Factory** : TRENDnet, Inc.  
**Address** : 20675 Manhattan Place, Torrance, CA 90501, USA  
**Date of Receipt** : Nov. 29, 2019  
**Date of Test** : Dec. 26, 2019~Jan. 08, 2020  
**Issued Date** : Mar. 20, 2020  
**Report Version** : R00  
**Test Sample** : Engineering Sample No.: DG201912044  
**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.

*Nick Chen*

Prepared by : Nick Chen

*Ethan Ma*

Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

**REPORT ISSUED HISTORY**

Report Version	Description	Issued Date
R00	Original Issue	Mar. 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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TRENDnet, Inc.	N/A	Internal	N/A	10

Note:

Antenna Gain=10 dBi. So, the output power limit is 30-10+6=26, the power spectral density limit is 8-10+6=4.

## 2. TEST RESULTS

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
10	10.0000	25.85	384.5918	0.76551	1	Complies

Note: The calculated distance is 20 cm.

**End of Test Report**