

# FCC RF Exposure Report

**FCC ID** : XU8TEW825DAP  
**Equipment** : AC1750 Dual Band PoE Access Point  
**Model No.** : TEW-825DAP  
**Multiple Listing** : Refer to item 1.1.1 for more details  
**Brand Name** : TRENDnet  
**Applicant** : TRENDnet, Inc.  
**Address** : 20675 Manhattan Place, Torrance, CA 90501,  
USA  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Jan. 14, 2016  
**Tested Date** : Jan. 14 ~ Jul. 06, 2016

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Along Chen  
Along Chen / Assistant Manager

Approved by:

Gary Chang  
Gary Chang / Manager



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## Release Record

Report No.	Version	Description	Issued Date
FA621702	Rev. 01	Initial issue	Oct. 03, 2016
FA621702	Rev. 02	Corrected type error	Dec. 21, 2016

## 1.1 Information

### 1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
TRENDnet	TEW-825DAP	AC1750 Dual Band PoE Access Point	Main test model
	TEW-825DAP3K	AC1750 Dual Band PoE Preconfigured Access Point Kit	Marketing purpose
	TEW-825DAP2K	AC1750 Dual Band PoE Preconfigured Access Point Kit	
	TEW-825DAP3KAC	AC1750 Dual Band Wireless Controller Kit	
	TEW-825DAP2KAC	AC1750 Dual Band Wireless Controller Kit	
♦ All models are electrically identical, different model names are for marketing purpose.			

## 2 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

### 2.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm <sup>2</sup> )	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

### 2.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

### 2.3 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412~2462	26.75	4	20	0.236	1
5180~5240	27.94	4	20	0.311	1
5745~5825	27.55	4	20	0.284	1

Both of the WLAN 2.4G & 5.0G can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + .....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN 2.4G + WLAN 5.0G = 0.236 / 1 + 0.311 / 1 = 0.547

Therefore, the maximum calculation of this situation is 0.547, which is less than the "1" limit.

### 3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

**Linkou**

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**Kwei Shan**

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Kwei Shan District, Tao Yuan City  
333, Taiwan, R.O.C.

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St., Kwei Shan District, Tao Yuan  
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If you have any suggestion, please feel free to contact us as below information.

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**==END==**