

Report No.: SA160822E04N

FCC ID: KA2AP2610A1

Test Model: DAP-2610

Received Date: Oct. 24, 2017

Test Date: Nov. 15, 2017

Issued Date: Dec. 01, 2017

Applicant: D-Link Corporation

Address: No.289, Xinhu 3rd Rd., Neihu District, Taipei City 11494, Taiwan, R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

Taiwan R.O.C.

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.

Report No.: SA160822E04N Page No. 1 / 6 Report Format Version: 6.1.1

Reference No.:171024E03



Table of Contents

Repo	ort Issue History Record	3
Relea	ase Control Record	3
1	Certificate of Conformity	4
2	RF Exposure	
2.1	Limits for Maximum Permissible Exposure (MPE)	5
	2 MPE Calculation Formula	
	3 Classification	
2.4	4 Antenna Gain	5
2.5	5 Calculation Result of Maximum Conducted Power	6



Report Issue History Record

Attachment No.	Issue Date	Description
SA160822E04	Oct. 28, 2016	Original release.
SA160822E04N	Dec. 01, 2017	Add DFS band <5.26~ 5.32GHz, 5.50 ~ 5.58GHz & 5.66 ~ 5.70GHz >

Release Control Record

Issue No.	Description	Date Issued
SA160822E04N	Original release.	Dec. 01, 2017

Report Format Version: 6.1.1



1 Certificate of Conformity

Product: Wireless AC1300 Concurrent Dual Band PoE Access Point

Brand: D-Link

Test Model: DAP-2610

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Nov. 15, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Mary Ko / Specialist

Approved by : , Date: Dec. 01, 2017

May Chen / Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)			Average Time (minutes)			
	Limits For General Population / Uncontrolled Exposure						
300-1500			F/1500	30			
1500-100,000			1.0	30			

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 22cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 Antenna Gain

Antenna No	Brand	Model	Antenna Gain (dBi) <including cable="" loss=""></including>	Frequency range (GHz ~ GHz)	Antenna Type	Connecter Type	Cable Length (mm)
Chain (1)	NA	290-20302	3.07 3.46	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	47
Chain (2)	NIA	200 20204	2.85	2.4~2.4835	DIEA	i nov/MUE)	04
Chain (2)	NA	290-20301	3.75	5.15~5.85	PIFA i-	i-pex(MHF)	81



2.5 Calculation Result of Maximum Conducted Power

For 2.4GHz, 5GHz (U-NII-1 & UNII-3 band) data was copied from the original test report (Report No.: SA160822E04)

Frequency Band (MHz)	Max. Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	861.713	5.97	22	0.56015	1
5180-5240	426.809	6.62	22	0.32224	1
5260-5320	210.368	6.62	22	0.15883	1
5500-5580 5660-5700	198.556	6.62	22	0.14991	1
5745-5825	459.267	6.62	22	0.34674	1

NOTE:

2.4GHz: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20})^2 / 2] = 5.97dBi$ 5GHz: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20})^2 / 2] = 6.62dBi$

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + WLAN 5GHz = 0.56015 / 1 + 0.34674 / 1 = 0.90689

Therefore the maximum calculations of above situations are less than the "1" limit.

--- END ---