

RF Exposure Report

Report No.: SABDUI-WTW-P20110878

FCC ID: KA2M32A1

Test Model: M32

Series Model: DIR-LX3260, M32-SP, M32-TR

Received Date: Mar. 27, 2021

Test Date: Mar. 31 ~ Jun. 22, 2021

Issued Date: Aug. 26, 2021

Applicant: D-Link Corporation

Address: 14420 Myford Road Suite 100 Irvine California United States 92606

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

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

**FCC Registration /
Designation Number:** 788550 / TW0003



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 specifically mentioned, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification.

Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 RF Exposure	5
2.1 Limits for Maximum Permissible Exposure (MPE).....	5
2.2 MPE Calculation Formula	5
2.3 Classification	5
3 Calculation Result of Maximum Conducted Power	6



Release Control Record

Issue No.	Description	Date Issued
SABDUI-WTW-P20110878	Original release	Aug. 26, 2021

1 Certificate of Conformity

Product: X3200 WI-FI 6 AI MESH SYSTEM, AX3200 WI-FI 6 AI MESH ROUTER, AX3200 MESH ROUTER, AX3200 MESH SYSTEM, AX3200 MESH WI-FI 6 ROUTER (refer to note for more details)

Brand: D-Link

Test Model: M32

Series Model: DIR-LX3260, M32-SP, M32-TR (refer to note for more details)

Sample Status: Engineering sample

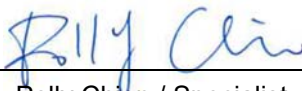
Applicant: D-Link Corporation

Test Date: Mar. 31 ~ Jun. 22, 2021

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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 RF characteristics under the conditions specified in this report.

Prepared by : , **Date:** Aug. 26, 2021
Polly Chien / Specialist

Approved by : , **Date:** Aug. 26, 2021
Bruce Chen / Senior Engineer

Note: All models are listed as below. Model M32 is the representative for final test.

Brand	Product name	Model	Difference
D-Link	AX3200 WI-FI 6 AI MESH SYSTEM	M32	For marketing purpose
	AX3200 WI-FI 6 AI MESH ROUTER		
	AX3200 MESH ROUTER		
	AX3200 MESH SYSTEM		
	AX3200 MESH WI-FI 6 ROUTER	DIR-LX3260	
	AX3200 WI-FI 6 AI MESH SYSTEM	M32-SP	
	AX3200 WI-FI 6 AI MESH ROUTER		
	AX3200 MESH WI-FI 6 ROUTER		
	AX3200 WI-FI 6 AI MESH SYSTEM	M32-TR	
	AX3200 WI-FI 6 AI MESH ROUTER		
	AX3200 MESH WI-FI 6 ROUTER		

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	f/1500	30
1500-100,000	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 39cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
CDD Mode					
2412-2462	29.69	10.91	39	0.601	1
5180-5240	27.40	10.18	39	0.300	1
5745-5825	27.03	11.25	39	0.352	1
Beamforming Mode					
2412-2462	23.66	10.91	39	0.150	1
5180-5240	21.38	10.18	39	0.075	1
5745-5825	21.01	11.25	39	0.088	1
BT EDR					
2402-2480	14.16	4.9	39	0.004	1
BT LE					
2402-2480	14.58	4.9	39	0.005	1

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- Directional gain:
2.4GHz Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4]$ = 10.91dBi
5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2]$ = 10.18dBi
5745-5825MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2]$ = 11.25dBi

Conclusion:

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$WLAN 2.4G+ 5GHz+BT = 0.601/1+0.352/1 + 0.005/1=0.958$$

---END---