

## RF Exposure Report

**Report No.:** MFBDOI-WTW-P20110878A

**FCC ID:** KA2M32A1

**Test Model:** M32

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

**Received Date:** Mar. 27, 2021

**Test Date:** May 05 ~ Jun. 02, 2021

**Issued Date:** Jul. 04, 2022

**Applicant:** D-Link Corporation

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

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

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



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**Release Control Record**

Issue No.	Description	Date Issued
MFBDUI-WTW-P20110878A	Original release	Jul. 04, 2022

# 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:** May 05 ~ Jun. 02, 2021

**FCC Rule Part:** FCC Part 2 (Section 2.1091)

**Standards:** 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 :** Polly Chien, **Date:** Jul. 04, 2022  
Polly Chien / Specialist

**Approved by :** Jeremy Lin, **Date:** Jul. 04, 2022  
Jeremy Lin / Project 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 <sup>2</sup> )	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 <sup>2</sup> )*	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/cm<sup>2</sup>

$P_{out}$  = 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 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 <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
CDD Mode					
2412-2462	29.69	10.91	39	0.601	1
5180-5240	27.40	10.18	39	0.300	1
5260-5320	23.23	10.18	39	0.115	1
5500-5720	22.60	11.20	39	0.126	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
5260-5320	17.21	10.18	39	0.029	1
5500-5720	16.58	11.20	39	0.031	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:  
2412-2462MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.91\text{dBi}$   
5180-5240MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.18\text{dBi}$   
5260-5320MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 10.18\text{dBi}$   
5500-5720MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.20\text{dBi}$   
5745-5825MHz: Directional gain =  $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/4] = 11.25\text{dBi}$

#### 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 =  $0.601/1 + 0.352/1 + 0.005/1 = 0.958$

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