
RF Exposure Report

Report No.: AGC17140250902FH01

FCC ID : 2BSRY-DGX21

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : AX3000 Wireless Router

BRAND NAME : Dragonglass

MODEL NAME : DGX21, DGX21H

APPLICANT : DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.

DATE OF ISSUE : Nov. 11, 2025

STANDARD(S) : FCC Part 2 Subpart J §2.1091

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 11, 2025	Valid	Initial Release

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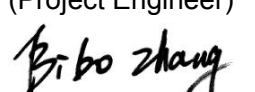
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1. General Information

Applicant	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Manufacturer	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Factory	DRAGONGLASS TECHNOLOGY(SHENZHEN)CO., LTD.
Address	No.29 Pitoudu West Road, Longxi Community, Longgang Street Longgang District, Shenzhen, China
Product Designation	AX3000 Wireless Router
Brand Name	Dragonglass
Test Model	DGX21
Series Model(s)	DGX21H
Difference Description	All the same except for the model name and color.
Date of receipt of test item	Oct. 10, 2025
Date of Test	Oct. 10, 2025 to Nov. 11, 2025
Deviation from Standard	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Test Report Form No	AGCER-FCC-RF Exposure-V1

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Cici Li	Nov. 11, 2025
	(Project Engineer)	
Reviewed By		
	Bibo Zhang	Nov. 11, 2025
	(Reviewer)	
Approved By		
	Angela Li	Nov. 11, 2025
	(Authorized Officer)	

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2. Product Information

2.1 Product Technical Description

Frequency Band (Operating)	☒ 2.4G WLAN: 2.412GHz ~ 2.462GHz ☒ 5G WLAN: U-NII 1:5150MHz~5250MHz; U-NII 2A: 5250MHz~5350MHz; U-NII 2C:5470MHz~5725MHz; U-NII 3: 5725MHz~5850MHz
Hardware Version	CLT-R30B1_0824_V1.1
Software Version	V1.0
Modulation Type	2.4G WLAN: 802.11b:(DQPSK, DBPSK, CCK) DSSS 802.11g/n:(64-QAM,16-QAM, QPSK, BPSK) OFDM 802.11ax:(1024-QAM,256-QAM,64-QAM,16QAM,QPSK,BPSK)OFDMA 5G WLAN: 802.11a/n:(64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ac :(256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDM 802.11ax :(1024-QAM,256-QAM, 64-QAM, 16-QAM, QPSK, BPSK) OFDMA
Device Category	☐ Portable (<20cm separation) ☒ Mobile (>20cm separation) ☐ Others:
Antenna Diversity	☐ Single antenna ☒ Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna Designation	External Antenna
Antenna Gain	Please refer to report section 3.4 description
Minimum Assessment Distance	20cm
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation

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3. Test Environment

3.1 Address Of The Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to follow CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842(CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (°C)	15 - 35
Relative humidity range	20 % - 75 %
Pressure range (kPa)	86 - 106
Power supply	DC12V by adapter

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3.4 DESCRIPTION OF AVAILABLE ANTENNAS

For 2.4GWiFi

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
2.4GWIFI PIFA Antenna List (2.4GHz 2*2 MIMO)						
External Antenna	2400~2483.5	2	20, 40	5.79	6.04	9.05

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:
 $\text{Array Gain} = 10 \log(N_{ANT}/N_{SS}) \text{ dB} = 3.01$;
- For power measurements on IEEE 802.11 devices:
 $\text{Array Gain} = 0 \text{ dB}$ for $N_{ANT} \leq 4$;
 $\text{Array Gain} = 0 \text{ dB}$ (i.e., no array gain) for channel widths $\geq 40 \text{ MHz}$ for any N_{ANT} ;
 $\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB}$ or 3 dB , whichever is less, for 20 MHz channel widths with $N_{ANT} \geq 5$.

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

For 5GWiFi

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 2	
5G WIFI PIFA Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.75	6.81	9.82
	5250 ~ 5350	2	20,40,80,160	6.18	6.20	9.21
	5470 ~ 5725	2	20,40,80,160	6.07	6.28	9.29
	5725 ~ 5850	2	20,40,80	5.93	5.99	9.00

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 1	Ant 3	
5G WIFI PIFA Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.75	6.92	9.93
	5250 ~ 5350	2	20,40,80,160	6.18	6.90	9.91
	5470 ~ 5725	2	20,40,80,160	6.07	6.22	9.23
	5725 ~ 5850	2	20,40,80	5.93	5.81	8.94

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Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)		Max Directional Gain (dBi)
				Ant 2	Ant 3	
5G WIFI PIFA Antenna List (5GHz 2*2 MIMO)						
External Antenna	5150 ~ 5250	2	20,40,80,160	6.81	6.92	9.93
	5250 ~ 5350	2	20,40,80,160	6.20	6.90	9.91
	5470 ~ 5725	2	20,40,80,160	6.28	6.22	9.29
	5725 ~ 5850	2	20,40,80	5.99	5.81	9.00

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)			Max Directional Gain (dBi)
				Ant 1	Ant 2	Ant 3	
5G WIFI PIFA Antenna List (5GHz 3*3 MIMO)							
External Antenna	5150 ~ 5250	3	20,40,80,160	6.75	6.81	6.92	11.69
	5250 ~ 5350	3	20,40,80,160	6.18	6.20	6.90	11.67
	5470 ~ 5725	3	20,40,80,160	6.07	6.28	6.22	11.05
	5725 ~ 5850	3	20,40,80	5.93	5.99	5.81	10.76

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n/ac/ax mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on devices:

Array Gain = $10 \log (N_{ANT}/N_{SS})$ dB = 3.01(N=2);

Array Gain = $10 \log (N_{ANT}/N_{SS})$ dB = 4.77(N=3);

- For power measurements on IEEE 802.11 devices:

Array Gain = 0 dB for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20 MHz channel widths with $N_{ANT} \geq 5$.

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

4. Mobile Device Evaluation Method and Limit

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.

Limits For General Population / Uncontrolled Exposure

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

The calculation formula of MPE measurement is as follows:

- $S = PG/4\pi R^2$
- Where:
- S=power density
- P=power input to 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

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5. Measurement Results

A minimum test separation distance ≥ 20 cm is required between the antenna and radiating structures of the device and nearby persons to apply mobile device exposure limits. The distance must be at least 20 cm and fully supported by the operating and installation configurations of the transmitter and its antenna(s), according to the source-based time-averaged maximum power requirements of § 2.1091(d)(2). In cases where cable losses or other attenuations are applied to determine compliance, the most conservative operating configurations and exposure conditions must be evaluated.

Test Mode	Test Frequency (MHz)	Antenna Gain (linear)	Max.Output Power (dBm)	Max.Output Power (mW)	Power Density (mW/cm ²)	Measurement Limit (mW/cm ²)
2.4GWIFI-ax40 MIMO (ANT1+ANT2)	2422	8.04	23.53	225.424	0.360	1.000
5GWIFI-ax40 MIMO (ANT1+ANT2+ANT3)	5230	14.69	19.51	89.331	0.261	1.000

1. Only the worst case recorded.
2. Please refer to section 3.4 of the report for the antenna configuration required for this calculation.
3. The 2.4GWIFI and 5GWIFI can transmit simultaneously: $0.360/1.0 + 0.261/1 = 0.621 < 1$
4. According to the user manual, the minimum separate distance which used for MPE calculate is 20cm

6. Measurement Evaluation

The equipment meets MPE measurement evaluation requirements.

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

-----End of Report-----

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