



# Radio Frequency Exposure

Applicant : D-Link Corporation

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

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Equipment : BE3600 Wi-Fi 7 Smart Mesh Router,  
Wi-Fi 7 BE3600 Mesh Router

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Model No. : M36

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Trade Name : D-Link

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FCC ID : KA2M36B1

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**I HEREBY CERTIFY THAT :**

The sample was received on Dec. 24, 2024 and the testing was completed on May. 08, 2025 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

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Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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# 1. Summary of Test Procedure and Test Results

## 1.1. Applicable Standards

### FCC Rules and Regulations Part 2.1091

FCC Rule	Description of Test	Result
2.1091	Radio Frequency Exposure	PASS

\*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement, measurement uncertainty evaluation is not considered.



## 2. Test Configuration of Equipment under Test

### 2.1. Feature of Equipment under Test

Operation Frequency Range	802.11b/g/n(Turbo QAM)/ax/be : 2400-2483.5MHz 802.11a/n/ac/ax/be: 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5875MHz
Center Frequency Range	802.11b/g/n(Turbo QAM)/ax/be : 2412-2462MHz 802.11a/n/ac/ax/be: 5180-5240MHz, 5260-5320MHz, 5500-5720MHz, 5745-5825MHz
Modulation Type	2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM, 256QAM(TurboQAM) 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 802.11be: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM
Modulation Technology	DSSS, OEDM, OFDMA
Data Rate	2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15,HT20/40 MCS0 – MCS9, VHT20/40(TurboQAM) 802.11ax: MCS0 – MCS11,HE20/40 802.11be: MCS0 – MCS13,EHT20/40 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80/160 802.11ax: MCS0 – MCS11,HE20/40/80/160 802.11be: MCS0 – MCS13,EHT20/40/80/160
Antenna Type	Dipole Antenna
Antenna Gain	2412-2484MHz: ANT B:1.57dBi, ANT C: 1.58dBi 5180~5260MHz: ANT A 1.68dBi, ANT D: 1.82dBi 5260-5320MHz: ANT A 1.63dBi, ANT D: 1.89dBi 5500~5700MHz: ANT A 1.72dBi, ANT D: 2.01dBi 5745-5875MHz: ANT A 1.73dBi, ANT D: 1.97dBi
Adapter	1. Brand: AMIGO Model: AMS200-1201500FU 2. Brand: AMIGO Model: AMS200-1201500F
RJ45 Cable	Brand: Nienyi /Model: NYS6200

Note:

1. EUT support TPC Function.
2. EUT support AP Mode (Master)
3. EUT support Bridge/Extender/Mesh Mode(Master/Client).
4. EUT Only Support Full RU
5. WLAN 2.4GHz 802.11ax/be support beamforming Function.
6. WLAN 5GHz 802.11ax/be support beamforming Function.
7. For more details, please refer to the User's manual of the EUT.

**2.2. General Information of Test**

Organization	CerpPASS Technology Corp.		
☒ Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel: +886-3-3226-888 Fax: +886-3-3226-881		
	FCC	TW1439, TW1079	
	IC	4934E-1, 4934E-2	
Frequency Range Investigated	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz		
Test Distance	The test distance of radiated emission from antenna to EUT is 3 M.		

**2.4G non-beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/03	20.9°C / 54%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/04	23.9°C / 45%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/08	25°C / 50%	Leon Huang
RF Conducted	RFCON01-NK	2025/03/08	22.2°C / 49%	Leon Huang
RF Conducted	RFCON01-NK	2025/05/08	25.8°C / 47%	Leon Huang

**2.4G Beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/11	22.4°C / 47%	Leon Huang

**5G non-beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/02	21.2°C / 51%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/03	20.9°C / 54%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/06	23.9°C / 47%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/07	24.9°C / 49%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/09	22.4°C / 46%	Leon Huang
RF Conducted	RFCON01-NK	2025/03/08	22.2°C / 49%	Leon Huang

**5G Beamforming**

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-NK	2025/01/11	22.4°C / 47%	Leon Huang
RF Conducted	RFCON01-NK	2025/01/13	22.6°C / 46%	Leon Huang



### 2.3. Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

#### 2.4G

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
Conducted Spurious Emission	±2.1dB
6dB Bandwidth	±5.4%
20dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Dwell Time / Deactivation Time	±7.6%
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%

#### 5G

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.2dB
Radiated Spurious Emission(9KHz~30MHz)	±3.5dB
Radiated Spurious Emission(30MHz~1GHz)	±5.1dB
Radiated Spurious Emission(1GHz~40GHz)	±5.2dB
6dB Bandwidth	±5.4%
26dB Bandwidth	±4.4%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±1.1dB
Power Spectral Density	±2.0dB
Duty Cycle	±3.5%
Frequency Stability	±0.23KHz



### 3. Test Equipment and Ancillaries Used for Tests

#### 2.4G non-beamforming

Test Item	RF Conducted(2025/01/3~2025/01/08)				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19

Test Item	RF Conducted(2025/03/08~2025/05/08)				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11

#### 2.4G Beamforming

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
CAX Signal Analyzer	KEYSIGHT	N9000B	MY57100339	2024/10/23	2025/10/22
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19

#### 5G non-beamforming

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2024/03/01	2025/02/28
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2025/03/03	2026/03/02
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19
Attenuator	KEYSIGHT	8491B	MY39250703	2025/02/12	2026/02/11
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2024/5/13	2025/05/12
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Power Meter	Anritsu	ML2495A	1224005	2025/02/12	2026/02/11
Power Sensor	Anritsu	MA2411B	1207295	2025/02/12	2026/02/11
Switch Box	Theda	1-4	TW5451159	NA	NA



5G Beamforming

Test Item	RF Conducted				
Test Site	RFCON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Spectrum Analyzer	ROHDE & SCHWARZ	FSP 40	100047	2024/03/01	2025/02/28
Attenuator	KEYSIGHT	8491B	MY39250703	2024/02/20	2025/02/19
Cable-0.5m(1G-26.5G)	HUBER SUHNER	SUCOFLEX 102	28422/2	2024/5/13	2025/05/12
Power Meter	Anritsu	ML2495A	1224005	2024/02/17	2025/02/16
Power Sensor	Anritsu	MA2411B	1207295	2024/02/17	2025/02/16
Switch Box	Theda	1-4	TW5451159	NA	NA



### 4. Radio Frequency Exposure

#### 4.1. Applicable Standards

<input type="checkbox"/> §1.1307(b)(3)(i)(A)	The available maximum time-averaged power is no more than 1 mW, regardless of separation distance.																																			
<input type="checkbox"/> §1.1307(b)(3)(i)(c)	ERP is below a threshold calculated based on the distance , R between the person and t antenna / radiating structure, where $R > \lambda / 2 \pi$ .  <p style="text-align: center;">TABLE B.1—THRESHOLDS FOR SINGLE RF SOURCES SUBJECT TO ROUTINE ENVIRONMENTAL EVALUATION</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">RF Source Frequency</th> <th colspan="2">Minimum Distance</th> <th>Threshold ERP</th> </tr> <tr> <th><math>f_L</math> MHz</th> <th><math>f_H</math> MHz</th> <th><math>\lambda_L / 2\pi</math></th> <th><math>\lambda_H / 2\pi</math></th> <th>W</th> </tr> </thead> <tbody> <tr> <td>0.3</td> <td>1.34</td> <td>159 m</td> <td>35.6 m</td> <td><math>1,920 R^2</math></td> </tr> <tr> <td>1.34</td> <td>30</td> <td>35.6 m</td> <td>1.6 m</td> <td><math>3,450 R^2/f^2</math></td> </tr> <tr> <td>30</td> <td>300</td> <td>1.6 m</td> <td>159 mm</td> <td><math>3.83 R^2</math></td> </tr> <tr> <td>300</td> <td>1,500</td> <td>159 mm</td> <td>31.8 mm</td> <td><math>0.0128 R^2/f</math></td> </tr> <tr> <td>1,500</td> <td>100,000</td> <td>31.8 mm</td> <td>0.5 mm</td> <td><math>19.2R^2</math></td> </tr> </tbody> </table> <p style="text-align: center;">Subscripts L and H are low and high; <math>\lambda</math> is wavelength. From § 1.1307(b)(3)(i)(C), modified by adding Minimum Distance columns.</p>	RF Source Frequency		Minimum Distance		Threshold ERP	$f_L$ MHz	$f_H$ MHz	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	W	0.3	1.34	159 m	35.6 m	$1,920 R^2$	1.34	30	35.6 m	1.6 m	$3,450 R^2/f^2$	30	300	1.6 m	159 mm	$3.83 R^2$	300	1,500	159 mm	31.8 mm	$0.0128 R^2/f$	1,500	100,000	31.8 mm	0.5 mm	$19.2R^2$
RF Source Frequency		Minimum Distance		Threshold ERP																																
$f_L$ MHz	$f_H$ MHz	$\lambda_L / 2\pi$	$\lambda_H / 2\pi$	W																																
0.3	1.34	159 m	35.6 m	$1,920 R^2$																																
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1,500	100,000	31.8 mm	0.5 mm	$19.2R^2$																																
<input checked="" type="checkbox"/> § 1.1307(b)(3)(i)(B).	Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, $\leq P_{th}$  $P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$ <p style="text-align: center;">Where</p> $x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$ <p style="text-align: center;">and</p> $ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$ <p style="text-align: center;"><math>d =</math> the separation distance (cm);</p>																																			



### 4.2. EUT Specification

<b>Frequency band (Operating)</b>	<input checked="" type="checkbox"/> WLAN: 2412MHz ~ 2462MHz <input checked="" type="checkbox"/> WLAN: 5150MHz ~ 5250MHz <input checked="" type="checkbox"/> WLAN: 5250MHz ~ 5350MHz <input checked="" type="checkbox"/> WLAN: 5470MHz ~ 5725MHz <input checked="" type="checkbox"/> WLAN: 5725MHz ~ 5850MHz <input type="checkbox"/> Bluetooth: 2402MHz ~ 2480MHz
<b>Device category</b>	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation)
<b>Antenna diversity</b>	<input type="checkbox"/> Single antenna <input checked="" type="checkbox"/> Multiple antennas <input checked="" type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
<b>Evaluation applied</b>	<input type="checkbox"/> Blanket 1 mW Blanket Exemption <input checked="" type="checkbox"/> MPE-based Exemption <input type="checkbox"/> SAR-based Exemption
<b>Remark:</b> Non-Beamforming: For 2.4G: The maximum conducted output power is 28.19dBm (659.33mW) at 2437MHz (with 1.58dBi antenna gain.) For 5G: The maximum conducted output power is 28.73dBm (747.14mW) at 5825MHz (with 1.97dBi antenna gain.) Beamforming: For 2.4G: The maximum conducted output power is 24.99dBm (315.251mW) at 2437MHz (with 4.59dBi antenna gain.) For 5G: The maximum conducted output power is 25.10dBm (323.526mW) at 5825MHz (with 4.86dBi antenna gain.)	



4.3. Result

2.4G non-beamforming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max.Tune up e.r.p. Power (mW)	Limit (mW)
2412-2462	28.19	28.69	1.58	28.12	648.79	3060

2.4G Beamforming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max.Tune up e.r.p. Power (mW)	Limit (mW)
2412-2462	24.99	25.49	4.59	27.93	620.38	3060

5G non-beamforming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
5180-5240	28.63	29.13	1.82	28.80	759.36	3060
5260-5320	23.81	24.31	1.89	24.05	253.87	3060
5500-5720	23.95	24.45	2.01	24.31	269.50	3060
5745-5825	28.73	29.23	1.97	29.05	804.27	3060

5G Beamforming

Channel Frequency (MHz)	Max. Conducted output power(dBm)	Max. Tune up power (dBm)	Antenna Gain(dBi)	Max.Tune up e.r.p. Power (dBm)	Max. Tune up e.r.p power (mW)	Limit (mW)
5180-5240	23.84	24.34	1.82	24.01	251.60	3060
5260-5320	20.92	21.42	1.89	21.16	130.74	3060
5500-5720	23.66	24.16	2.01	24.02	252.40	3060
5745-5825	25.10	25.60	1.97	25.42	348.26	3060

No non-compliance noted.

-----THE END OF REPORT-----