

FCC RF EXPOSURE REPORT

FCC ID: ZNPWD-R3601U

Project No. : 2606C215
Equipment : BE3600 WIFI7 Dual Band Wi-Fi Range Extender
Brand Name : N/A
Test Model : WD-R3601U
Model Name : WD-R3601U, WD-R3602U, WD-R3601N, WD-R3602N
Hardware Version : WD536BE V2.1
Software Version : RE536BE031225V1.02
Applicant : Shenzhen Century Xinyang Tech Co., Ltd
Address : 3F,North Building,Bantian High-tech industrial Zone, No. 2 of Bell Road, Longgang, Shenzhen, Guangdong,China
Manufacturer : Shenzhen Century Xinyang Tech Co., Ltd
Address : 3F,North Building,Bantian High-tech industrial Zone, No. 2 of Bell Road, Longgang, Shenzhen, Guangdong,China
Factory : Shenzhen Century Xinyang Tech Co., Ltd
Address : 3F,North Building,Bantian High-tech industrial Zone, No. 2 of Bell Road, Longgang, Shenzhen, Guangdong,China
Date of Receipt : Jun. 24, 2026
Date of Test : Jun. 25, 2026 ~ Aug. 07, 2026
Issued Date : Sep. 01, 2026
Test Sample : Engineering Sample No.: DG92026062460
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacturer's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. BTL assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by BTL.

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2606C215	R00	Original Report.	Sep. 01, 2026	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the 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

2. ANTENNA SPECIFICATION

For WLAN 2.4GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		NB2400-Z5108A 145-GBX	PCB	N/A	2.06
2		NB2400-Z5108A 145-GBX	PCB	N/A	2.06

Note:

- This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=2.06.
For power spectral density measurements, $N_{ANT}=2$, $N_{SS}=1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 2.06 + 10\log(2/1)\text{dBi} = 5.07$.
- The antenna gain is provided by the manufacturer.

For RLAN 5GHz:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1		NB5800-Z5108A 105-GBX	PCB	N/A	5.95
2		NB5800-Z5108A 105-GBX	PCB	N/A	5.95
3		NB5800-Z5108A 105-GBX	PCB	N/A	5.95

Note:

- This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=5.95.

For power spectral density measurements, $N_{ANT}=3$, $N_{SS}=1$.
So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 5.95 + 10\log(3/1)\text{dBi} = 10.72$.
Then, the UNII-1 power spectral density limit is $17 - (10.72 - 6) = 12.28$, the UNII-3 power spectral density limit is $30 - (10.72 - 6) = 25.28$.
- The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.06	1.6069	21.24	133.0454	0.0425	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.65	4.6238	21.44	139.3157	0.1282	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
2.4GHz	5GHz			
0.0425	0.1282	0.1707	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) $\text{Ratio} = \text{Power Density (S) (mW/cm}^2\text{)} / \text{Limit of Power Density (S) (mW/cm}^2\text{)}$
- (3) Output power including tune up tolerance.

End of Test Report