

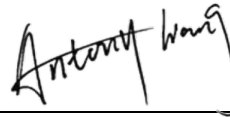
FCC RF EXPOSURE REPORT

FCC ID: G95-UIW4087

Project No. : 2510C241
Equipment : Set Top Box
Brand Name : Vantiva
Test Model : UIW4087TRS
Model Name : UIW4087TRS, UIW4087TRSxxxx (where x can be alphanumeric, -, or blank, for marketing strategy)
Hardware Version : FGR
Software Version : MTDV 2.67
Applicant : Vantiva USA LLC
Address : 4855 Peachtree Industrial Blvd, Suite 200 Norcross, GA 30092 United States
Manufacturer : Vantiva USA LLC
Address : 4855 Peachtree Industrial Blvd, Suite 200 Norcross, GA 30092 United States
Factory : Cal-Comp Electronics (Thailand) Public Company Limited
Address : 138 MOO 4, PETCHKASEM ROAD SAPANG, KOAW-YOI, PETCHBURI, Thailand 76140
Date of Receipt : Oct. 24, 2025
Date of Test : Oct. 27, 2025 ~ Dec. 11, 2025
Issued Date : Jan. 23, 2026
Test Sample : Engineering Sample No.: DG92025102498
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

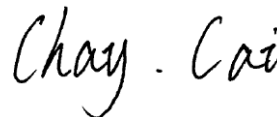
The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-6-2510C241	R00	Original Report.	Jan. 23, 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 BT/LE:

Ant.	Brand	IPN	Antenna Type	Connector	Gain (dBi)
1	Vantiva	6329460A	PIFA	N/A	3.1

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand	IPN	Antenna Type	Connector	Gain (dBi)
1	Vantiva	6329460A	PIFA	N/A	3.1
2	Vantiva	6329460A	PIFA	N/A	3.3

Note:

(1) For CDD: The directional gain is 0.6.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

(2) For TX BF: The beamforming directional gain is 3.6.

(3) The antenna gain, directional gain and beamforming directional gain are provided by the manufacturer.

For 5GHz:

Ant.	Brand	IPN	Antenna Type	Connector	Gain (dBi)	Note
1	Vantiva	6329460A	PIFA	N/A	1.8	UNII-1
					1.8	UNII-2A
					2.7	UNII-2C
					3.0	UNII-3
2	Vantiva	6329460A	PIFA	N/A	4.6	UNII-1
					4.0	UNII-2A
					4.4	UNII-2C
					3.3	UNII-3

Note:

- (1) For CDD: The UNII-1 directional gain is 1.4. The UNII-2A directional gain is 1.2.
The UNII-2C directional gain is 1.3. The UNII-3 directional gain is 1.3.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

- (2) For TX BF:
The UNII-1 beamforming directional gain is 4.0. The UNII-2A beamforming directional gain is 3.6.
The UNII-2C beamforming directional gain is 4.3. The UNII-3 beamforming directional gain is 4.2.
- (3) The antenna gain, directional gain and beamforming directional gain are provided by the manufacturer.

3. CALCULATED RESULT

Function	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Ratio
BT	3.10	2.0417	9.14	8.2035	0.0033	1.0000	0.0033
BLE	3.10	2.0417	4.36	2.7290	0.0011	1.0000	0.0011
Wi-Fi 2.4GHz	0.60	1.1482	25.62	364.7539	0.0833	1.0000	0.0833
Wi-Fi 5GHz	1.30	1.3490	25.39	345.9394	0.0928	1.0000	0.0928

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
BT	5GHz			
0.0033	0.0928	0.0962	1	Pass

Note:

(1) The calculated distance is 20 cm.

(2) $\text{Ratio} = \text{Power Density (S) (mW/cm}^2\text{)} / \text{Limit of Power Density (S) (mW/cm}^2\text{)}$

End of Test Report