

RF Exposure Report

FCC ID: 2AC23-WT39M2011T

Product : WIFI+BT Module

Trade Name : GSD

Model Number : WT39M2011T

Issued for

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MPE Calculation

1. Antenna Gain:

BT FPC Antenna: 2.402~2.48 GHz: 3.96 dBi
WIFI FPC Antenna: 2.412~2.462 GHz: 2.02 dBi
WIFI FPC Antenna: 5.15~5.25GHz: 2.78 dBi
WIFI FPC Antenna: 5.725~5.85GHz: 2.31 dBi

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=(PG)/4\pi R^2$$

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

4. Test Result:

MPE Result						
Mode	N _{TX}	Frequency (MHz)	Power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm ²) [S]
BT	1	2480	2.95	3.96	20	0.0010
BT(BLE)	1	2480	1.60	3.96	20	0.0007
2.4G WIFI	2	2412	19.89	2.02	20	0.0309
U-NII-1 Band WIFI	Ant 0	5240	15.41	2.78	20	0.0131
	Ant 1	5240	14.46	2.78	20	0.0105
U-NII-1 Band WIFI Total						0.0236
U-NII-3 Band WIFI	Ant 0	5745	11.67	2.31	20	0.0049
	Ant 1	5745	11.09	2.31	20	0.0044
U-NII-3 Band WIFI Total						0.0093
Note:						
(1) N _{TX} = Number of Transmit Antennas						
(2) RF Output power specifies that Maximum Conducted Peak Output Power.						

5. Conclusion:**FCC and IC:**

FCC: As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),
IC: As specified in 4.2 RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For all the operating frequency band the MPE limit S: 1 mW/ cm²

The maximum MPE is calculated as 0.0309mW / cm² < limit 1 mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.