

Maximum Permissible Exposure

FCC ID: OHB-A010001

Product Name: IOTAS Connect 3

Model No: (1)ITS-GW01-A10-C001 (2)ITS-GW01-A10-C002

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits For Occupational / Control Exposures (f = frequency)				
30-300	61.4	0.163	1.0	6
300-1500	...	...	f/300	6
1500-100,000	...	...	5.0	6
(B) Limits For General Population / Uncontrolled Exposure (f = frequency)				
30-300	27.5	0.073	0.2	30
300-1500	...	...	f/1500	30
1500-100,000	...	...	1.0	30

AAEON Technology Inc. declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

RF Exposure Calculations:

Operating Mode	TX frequency range (MHz)		Max Tune-up Power (dBm)	Antenna Gain(dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	MPE Ratio
WiFi 802.11b/g/n	2412	2462	24.00	2.39	0.087	1.00	0.087
BLE	2402	2480	3.00	2.39	0.001	1.00	0.001
ZigBee	2405	2480	11.00	2.39	0.004	1.00	0.004
BT	2402	2480	6.00	2.39	0.001	1.00	0.001
Z-Wave	908.4	916	-3.00	0.30	0.001	0.61	<0.000
WiFi 802.11a/n/ac	5180	5240	10.50	4.06	0.006	1.00	0.006
WiFi 802.11a/n/ac	5745	5825	13.00	4.06	0.010	1.00	0.010
WCDMA Band 2	1850	1910	25.00	2.50	0.112	1.00	0.112
WCDMA Band 4	1710	1755	25.00	2.50	0.112	1.00	0.112
WCDMA Band 5	824	849	25.00	0.90	0.077	0.55	0.141
LTE-FDD Band 2	1850	1910	25.00	2.50	0.112	1.00	0.112
LTE-FDD Band 4	1710	1755	25.00	2.50	0.112	1.00	0.112
LTE-FDD Band 5	824	849	25.00	0.90	0.077	0.55	0.141
LTE-FDD Band 12	699	716	25.00	0.90	0.077	0.47	0.166
LTE-FDD Band 13	777	787	25.00	0.90	0.077	0.52	0.149
LTE-FDD Band 14	788	798	25.00	0.90	0.077	0.53	0.147
LTE-FDD Band 66	1710	1780	25.00	2.50	0.112	1.00	0.112
LTE-FDD Band 71	663	698	25.00	0.90	0.077	0.44	0.175

Note: 1. The Z-wave ratio <0.001 thus it was excluded from simultaneous evaluation.

2. The WCDMA and LTE max tune up power are refer to the certified LTE module.

2. MPE Calculation for Simultaneous

WLAN 2.4G (mW/cm ²)	BT (mW/cm ²)	ZigBee (mW/cm ²)	LTE (mW/cm ²)	Total	Limit
0.087	0.001	0.004	0.175	0.2670	≤ 1

WLAN 5G (mW/cm ²)	BT (mW/cm ²)	ZigBee (mW/cm ²)	LTE (mW/cm ²)	Total	Limit
0.010	0.001	0.004	0.175	0.1900	≤ 1

Sincerely Yours,



Mr. Johnny Hsueh
Section Manager
AUDIX Technology Corporation