

RF EXPOSURE EVALUATION REPORT

FCC ID : OEOM3228AMRM0
Equipment : ML3228A-GAIA-M3-PE11
Brand Name : TELINK SEMICONDUCTOR (SHANG HAI) CO., LTD.
Model Name : ML3228A-GAIA-M3-PE11
Applicant : Telink Semiconductor (Shanghai) Co., Ltd.
11F, Building 1, 61 Shengxia Road, Pudong District,
Shanghai, China
Manufacturer : Shenzhen Xinghongju Technology Co., LTD
Building 201, No. 48, Pingzi Road, Nienfeng Community,
Pingdi Street, Longgang District, Shenzhen
Standard : 47 CFR Part 2.1091

We, SPORTON INTERNATIONAL INC has been evaluated this product in accordance with 47 CFR Part2.1091 and it complies with applicable limit.

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3786) and the FCC designation No. TW3786 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC evaluation.

The results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Laboratory, the test report shall not be reproduced except in full.



Approved by: Cona Huang / Deputy Manager



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History of this test report

Report No.	Version	Description	Issued Date
FA620529	Rev. 01	Initial issue of report	Apr. 07, 2026

1. Description of Equipment Under Test (EUT)

Product Feature & Specification	
EUT Type	ML3228A-GAIA-M3-PE11
Brand Name	TELINK SEMICONDUCTOR (SHANG HAI) CO., LTD.
Model Name	ML3228A-GAIA-M3-PE11
FCC ID	OEOM3228AMRM0
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz Zigbee: 2405 MHz ~ 2480 MH
Mode	Bluetooth LE Zigbee: BPSK

Reviewed by: Jason Wang

Report Producer: Paula Chen

2. Maximum RF average output power among production units

Mode		Maximum Average power(dBm)
BLE-1M	2402 MHz	8.34
	2440 MHz	8.5
	2480 MHz	8.52
BLE-2M	2402 MHz	8.38
	2440 MHz	8.32
	2480 MHz	8.52
BLE-125k	2402 MHz	8.38
	2440 MHz	8.5
	2480 MHz	8.53
BLE-500k	2402 MHz	8.38
	2440 MHz	8.32
	2480 MHz	8.35
Zigbee	2405 MHz	8.18
	2440 MHz	8.48
	2475 MHz	8.51
	2480 MHz	8.51



3. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

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

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

**4. Radio Frequency Radiation Exposure Evaluation**

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
Bluetooth	1.4	8.53	9.93	9.84	0.002	1.000
Zigbee	1.4	8.51	9.91	9.79	0.002	1.000

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.