

RF EXPOSURE EVALUATION REPORT

FCC ID : 2AF77-H2621890
Equipment : Communication Device
Brand Name : blink
Model Name : BSM00700U
Applicant : Immedia Semiconductor LLC.
100 Riverpark Drive Suite 125, North Reading, MA,
United States 01864
Manufacturer : Immedia Semiconductor LLC.
100 Riverpark Drive Suite 125, North Reading, MA,
United States 01864
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



SPORTON INTERNATIONAL INC. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issued Date
FA260317002	Rev. 01	Initial issue of report	May 26, 2026

**1. Description of Equipment Under Test (EUT)**

Product Feature & Specification	
EUT Type	Communication Device
Brand Name	blink
Model Name	BSM00700U
FCC ID	2AF77-H2621890
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz SRD: 902.4 MHz ~ 927.6 MHz 802.11ah: 902.5 MHz ~ 927.5 MHz
Mode	WLAN: 802.11b/g/n HT20 Bluetooth LE SRD: GFSK 802.11ah: OFDM
EUT Stage	Identical Prototype

Reviewed by: Jason Wang**Report Producer: Carlie Tsai****2. Maximum RF average output power among production units**

Mode	Maximum Average power(dBm)
WLAN 2.4GHz	17
Bluetooth	8.5
SRD	26
802.11ah	16.5



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

4.1. Standalone Power Density Calculation

Band	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum PG (mW)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)	Power Density / Limit
WLAN 2.4GHz	5.04	17.00	22.0	159.96	0.032	1.000	0.032
Bluetooth	5.04	8.50	13.5	22.59	0.004	1.000	0.004
SRD	2.40	26.00	28.4	691.83	0.138	0.602	0.229
802.11ah	2.60	16.50	19.1	81.28	0.016	0.602	0.027

4.2. Collocated Power Density Calculation

WLAN 2.4GHz Power Density / Limit	SRD Power Density / Limit	Σ (Power Density / Limit) of WLAN 2.4GHz + SRD
0.032	0.229	0.261

802.11ah Power Density / Limit	SRD Power Density / Limit	Σ (Power Density / Limit) of 802.11ah + SRD
0.027	0.229	0.256

Note:

1. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WLAN 2.4GHz + SRD and 802.11ah + SRD.
2. Considering the SRD collocation with the WLAN 2.4GHz or 802.11ah transmitter of the EIRP performance listed in the table above, the aggregated (power density /limit) is smaller than 1, and MPE of 2 collocated transmitters is compliant.

Conclusion:

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