

FCC RF Exposure

Applicant : KINDOO LLP

7-2070 Harvey Ave., Unit #163, Kelowna, British **Address**

Columbia, N/A V1Y 8P8 Canada

Product Name : Access control

Brand Mark : KINDOO Model : KIN S W01

Series model : N/A

FCC ID : 2A7TP-KINSW01

Report Number : BLA-EMC-202502-A1402

Date of Receipt : Feb. 12, 2025

Date of Test : Feb. 12, 2025 to Feb. 21, 2025

47 CFR Part 15. Part1.1307

: 47 CFR Part 15, Part2.1093 **Test Standard**

KDB447498D04 General RF Exposure Guidance v01

Test Result : Pass

Compiled by: Mark han Review by: Sweets

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China



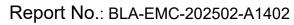
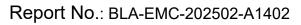






Table of Contents

1 General information	 4
1.1 General information	 2
1.2 General description of EUT	
2 RF Exposure Compliance Requirement	
2.1 Standard Requirement	
2.2 Limits	5
2.3 Result	





Page 3 of 6

Revise Record

Version No.	. Date Description			
01	Feb. 24, 2025	Original		



1 General information

1.1 General information

Applicant	KINDOO LLP
Address	7-2070 Harvey Ave., Unit #163, Kelowna, British Columbia, N/A V1Y
	8P8 Canada
Manufacturer	KINDOO LLP
Address	7-2070 Harvey Ave., Unit #163, Kelowna, British Columbia, N/A V1Y
	8P8 Canada
Factory	KINDOO LLP
Address	7-2070 Harvey Ave., Unit #163, Kelowna, British Columbia, N/A V1Y
	8P8 Canada

1.2 General description of EUT

Product name	Access control			
Model no.	KIN S W01			
Operation Frequency:	2402MHz-2480MHz			
Modulation Type:	GFSK			
Number of Channels:	40			
Antenna Type:	Internal antenna			
Antenna Gain:	3.7dBi (Provided by customer)			
Power supply:	DC 6V			
Hardware Version	1.0			
Software Version	1.0			



2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$
(B. 2)

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20 \text{ cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP_{20cm} is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

					Di	stance	(mm)				
		5	10	15	20	25	30	35	40	45	50
Frequency (MHz)	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{\text{th }}(\text{mW}) = ERP_{20 \text{ cm }}(\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

Blue Asia Technical Services (Shenzhen) Co., Ltd

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com



2.3 Result

EIRP = pt x gt = $(E \times d)2/30$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

Spot = $(EXd)2/30 \times gt$

Separation distance= 20cm

Ant gain = 3.7dBi

For BLE 1M(Worst):

Max Output power = -2.255dBm @ 2402MHz

ERP = -2.255dBm+3.7dBi-2.15=-0.705dBm=0.85mW< 3060 mW

it's deemed to fulfil the RF exposure requirement.

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, the result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

Blue Asia Technical Services (Shenzhen) Co., Ltd

Tel: +86-755-23059481

Email: marketing@cblueasia.com www.cblueasia.com