

RF Exposure Evaluation Report

Product : Side Mount Garage Door Opener
Trade mark : SKYLINK
Model/Type reference : SM-001
Serial Number : S/N
Report Number : EED32P80550903
FCC ID : KUTSM001
Date of Issue : Jun. 19, 2023
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

Capital Prospect Ltd.
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2 Version

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4 General Information

4.1 Client Information

Applicant:	Capital Prospect Ltd.
Address of Applicant:	Rm 03, 13/F, Block B, Veristrong Ind Bdg, 34-36 Au Pui Wan Street, Fo Tan, N.T., Hong Kong
Manufacturer:	Capital Prospect Ltd.
Address of Manufacturer:	Rm 03, 13/F, Block B, Veristrong Ind Bdg, 34-36 Au Pui Wan Street, Fo Tan, N.T., Hong Kong

4.2 General Description of EUT

Product Name:	Side Mount Garage Door Opener
Model No.(EUT):	SM-001
Trade Mark:	SKYLINK

4.3 Product Specification subjective to this standard

Frequency Range:	317.5MHz; 911MHz-919MHz; 2412MHz-2462MHz (Note:A certified WiFi module is built into the product. FCC ID:2ASEO-HM-WF8266A)
Test Power Grade:	Default
Test Software of EUT:	RF test
Antenna Type:	Internal antenna
Power Supply:	AC 120V
Sample Received Date:	Apr.21,2023
Sample tested Date:	May.17,2023 to Jun.01,2023
Remark:	Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold P_{th} (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by Formula

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

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 $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure Evaluation

For 317.5MHz:

Mode	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
317.5MHz	44.45	-52.93	5.09×10^{-6}	≤ 647.70	0.79×10^{-8}	PASS

For 900MHz:

Mode	Field strength of the fundamental signal (dBuV/m@3m)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
911MHz	53.55	-43.83	4.14×10^{-5}	≤ 1858.44	2.23×10^{-8}	PASS

For 2.4G WiFi:

Mode	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2.4G WIFI MAX Power	19.20	3	20.05	101.16	≤ 3060	0.033	PASS

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 20cm;
- ⑥ The test data please refer to the report of EED32P80550901, EED32P80550902 and FCC ID:2ASEO-HM-WF8266A's report. Only the worst case data was recorded in the report.

For Simultaneous Transmission:

As MPE ratio (31.75MHz+911MHz+2.4G WiFi)= $0.79 \times 10^{-8} + 2.23 \times 10^{-8} + 0.033 \approx 0.0331 < 1$, it's deemed to fulfil the RF exposure requirement.

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 CTI, this report can't be reproduced except in full.

*** End of Report ***