# RF Exposure Report

### FCC ID:2APXC-F-US04A

**Report No.** : SSP24100139-2E

**Applicant** : Shenzhen Farylink Technology Co.,Ltd

**Product Name**: Smart Switch

**Model Name** : F-US04A

**Test Standard**: FCC CFR 47 PART 1.1307(b)

**Date of Issue** : 2024-10-29



#### Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

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**APPROVE** 

#### **Test Report Basic Information**

Applicant..... Shenzhen Farylink Technology Co.,Ltd

7/F, Building D, Jintai International Industrial Park Hangchen Road, Baoan,

Address of Applicant..... Shenzhen, China

Shenzhen Farylink Technology Co.,Ltd Manufacturer.....

7/F, Building D, Jintai International Industrial Park Hangchen Road, Baoan,

Address of Manufacturer.....: Shenzhen, China

Product Name....: **Smart Switch** 

Brand Name.....

Main Model..... F-US04A

Series Models..... See section 1.1 (Page 5)

FCC CFR 47 PART 1.1307(b)

Test Standard....: KDB 447498 D01 v06

**Date of Test** ...... 2024-10-15 to 2024-10-29

Test Result....: PASS

(Coke Huang)

(Lieber Ouyang)

Authorized Signatory..... (Lahm Peng)

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

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Revision	Issue Date	Description	Revised By	
V1.0	2024-10-29	Initial Release	Lahm Peng	

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# 1. General Information

#### 1.1 Product Information

Product Name:	Smart Switch
Trade Name:	-
Main Model:	F-US04A
Series Models:	F-SS01WB, F-SS01WZ, F-SS02WB, F-SS02WZ, F-SS03WB, F-SS03WZ, F-US01A,
	F-US01C, F-US02A, F-US02C, F-US03A, F-US03C, F-US04C
Rated Voltage:	Input: AC 100-240V
Hardware Version:	V1.0
Software Version:	V1.0

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Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification				
Wireless Standard:	802.11b/g/n			
Operating Frequency:	2.4GWiFi: 2412 MHz ~2462 MHz			
RF Output Power:	14.32dBm			
Antenna Gain:	0dBi			
Type of Antenna:	PCB Antenna			
Type of Device:	☐ Portable Device ☐ Modular Device			

#### 1.2 Test Facilities

	Shenzhen CCUT Quality Technology Co., Ltd.			
Laboratory Name:	1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
	Guangming District, Shenzhen, Guangdong, China			
CNAS Laboratory No.:	L18863			
A2LA Certificate No.:	6893.01			
FCC Registration No:	583813			
ISED Registration No.:	CN0164			
All measurement facilities used to collect the measurement data are located at 1F Building 35. Changying				

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

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## 2. RF Exposure

#### 2.1 Standard and Limit

The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm2)	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/f2)	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/f2)	30		
30-300	27.5	0.073	0.2	30		
300-1500			f/1500	30		
1500-100,000			1.0	30		

f = frequency in MHz

Friis transmission formula: Pd = (Pout\*G)/(4\*pi\*r2)

#### Where

Pd = power density in mW/cm2, Pout = output power to antenna in mW;

G = gain of antenna in linear scale, Pi = 3.1416;

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### **Test Procedure**

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

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## 2.2 Test Data and Results

For 2.4G WiFi

Mode	Output power to antenna (dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Output power to antenna (mW)	Power Density at R=20cm (mW/cm2)	Limit (mW/cm2)	Result
802.11b	14.32	14(±1)	15	31.62	0.0063	1.0	PASS

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Remark: antenna gain=0dBi

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