

RF Exposure Report

Report No.: SABGGV-WTW-P21120247

FCC ID: 2AH7L-UPSC

Test Model: PAS400

Received Date: Dec. 30, 2021

Test Date: Feb. 08 ~ Feb. 19, 2022

Issued Date: May 09, 2022

Applicant: Schneider Electric Industries SAS

Address: Electropole Site - 38EQ1, 31 rue Pierre Mendes France, Eybens - 38050

Grenoble cedex 9

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, Taiwan

Test Location (2): No. 70, Wenming Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

FCC Registration / 788550 / TW0003

Designation Number(1):

FCC Registration /

Designation Number(2): 281270 / TW0032





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Release Control Record

Issue No.	Description	Date Issued
SABGGV-WTW-P21120247	Original release.	May 09, 2022



Certificate of Conformity

Product: EcoStruxure™ Panel Server Entry

Brand: Schneider Electric

Test Model: PAS400

Sample Status: Engineering sample

Applicant: Schneider Electric Industries SAS

Test Date: Feb. 08 ~ Feb. 19, 2022

Standards: FCC Part 2 (Section 2.1091)

References Test KDB 447498 D01 General RF Exposure Guidance v06

Guidance:

The above equipment has been tested by Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Polly Chien / Specialist , Date: May 09, 2022

Approved by: Jeremy Lin , Date: May 09, 2022

Jeremy Lin / Project Engineer



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)			
Limits For General Population / Uncontrolled Exposure							
0.3-1.34	614 1.63 (100)		(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			

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

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

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.



3 Calculation Result of Maximum Conducted Power

Radio	Frequency Band (MHz)	Max. AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
2.4GHz	2412-2462	16.45	3.5	20	0.020	1
5GHz	5180-5240	17.44	2.2	20	0.018	1
	5745-5825	17.44	2.2	20	0.018	1
BT LE	2402-2480	5.06	3.5	20	0.001	1
Zigbee	2405-2480	6.24	3.5	20	0.002	1

Note:

- 1. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 3. The WLAN 2.4GHz, 5GHz, Zigbee and BT of the device can transmit simultaneously but not WLAN 2.4GHz and 5GHz at the same time.

Conclusion:

Both of the WLAN, Zigbee and BT can transmit simultaneously, the formula of calculated the MPE is: CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

- 1. WLAN 2.4GHz + BLE + Zigbee = 0.020 / 1 + 0.001 / 1 + 0.002 / 1 = 0.023
- 2. WLAN 5GHz + BLE + Zigbee = 0.018 / 1 + 0.001 / 1 + 0.002 / 1 = 0.021

Therefore the maximum calculations of above situations are less than the "1" limit.

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