RF Exposure Report

Report No.:	SABHBQ-WTW-P21030022
FCC ID:	2AH7L-UPSB
Test Model:	PAS600T, PAS600
Series Model:	PAS600L
Received Date:	Jun. 10, 2020
Date of Evaluation:	Jul. 22, 2020
Issued Date:	Mar. 19, 2021
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:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
SABHBQ-WTW-P21030022	Original Release	Mar. 19, 2021

1 Certificate of Conformity

Product:	EcoStruxure Panel Server
Brand:	Schneider Electric
Test Model:	PAS600T, PAS600
Series Model:	PAS600L
Sample Status:	Identical Prototype
Applicant:	Schneider Electric Industries SAS
Date of Evaluation:	Jul. 22, 2020
Standards:	FCC Part 2 (Section 2.1091)
References Test Guidance :	KDB 447498 D01 General RF Exposure Guidance v06 IEEE C95.3 -2002

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.

Prepared by : Gina Liu , **Date:** Mar. 19, 2021

Gina Liu / Specialist

Approved by : , **Date:** Mar. 19, 2021

Dylan Chiou / Senior Project Engineer

2 General Information

This report is prepared for FCC class II permissive change. This report is issued as a supplementary report to BV CPS report no.: SA200605C50. The differences compared with original report are adding model, changing the power supply and model name and removing digital input port. Therefore, Due to no effect other test items, the original test result was kept.

3 RF Exposure

3.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
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

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

3.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm^2

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

3.3 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**.

3.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
BT	2402-2480	5.55	4.3	20	0.002	1.00
WLAN	2412-2462	17.73	4.3	20	0.032	1.00
Zigbee	2405-2475	6.32	5.1	20	0.003	1.00

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 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

Conclusion:

Both of the WLAN and BT and Zigbee 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

WLAN + BT + Zigbee = 0.002 / 1 + 0.032 / 1 + 0.003 / 1 = 0.037

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

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