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RF EXPOSURE REPORT

ΩF

Applicant: Quanta Computer Inc.

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City

33377, Taiwan

Product Name: Clover Card Reader

Brand Name: Clover

Model No.: C600

Model Difference: N/A

Report Number: E2/2020/80018

FCC ID: HFS-C600

FCC Rule Part Part 2.1091

Issue Date: Sep. 04, 2020

We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

The results of this report relate only to the sample identified in this report.

Approved By:

Yeh John / Asst. Manager





Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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Revision History								
Report Number Revision Description Issue Date Remark								
E2/2020/80018	Rev.00	Original.	Sep. 05, 2020	Revised By: Susan Lin				

Note:

1 · Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

General:

Product Name:	Clover Card Reader				
Brand Name:	Clover	Clover			
Model No.:	C600	C600			
Model Difference:	N/A				
Hardware Version:	1.01				
Software Version:	N/A				
		from Rechargeable Li-ion Polymer Battery			
Power Supply:	Battery:	tery: Model No.: 141028, Supplier: VEKEN			

1.2 **Maximum Output power**

The Max, output power value is derived from below test report.

DI E	Report Number:	E2/2020/80016
BLE	Test Lab:	SGS Taiwan Ltd. Central RF Lab

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1.3 Antenna Information:

1.3.1 BLE

Antenna	Supplier	Antenna	Freq.	Peak Antenna	
Type		Part No.	(MHz)	Gain (dBi)	
Monopole	Quanta	N/A	2.4GHz	-3.64	

1.4 Rated Power

1.4.1 BLE

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BLE	2402-2480	40	GFSK	-0.69	-3.64	-4.33	V

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FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 **FCC Standard Applicable**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time				
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)				
	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				
1500-15000	/	/	1.0	30				

f = frequency in MHz

Prediction of MPE limit at a given distance

 $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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^{* =} Plane-wave equipment power density



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Power Density Calculation (Worst Case) 2.2

Operation Mode	Evaluation Frequency (MHz)	•	Max. output Power (dBm)	Antenna Gain (dBi)	EIRP	Density	Limit (mW/cm²)	Pass / Fail	Power Density / Limit
BLE 1M	2480.00	20	-0.69	-3.64	0.37	0.000	1.000	Pass	0.000

~ End of Report ~

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