

Page: 1 of 10

# RF EXPOSURE REPORT





Applicant: Quanta Computer Inc.

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

33377, Taiwan

Manufacturer: Quanta Computer Inc.

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

33377, Taiwan

**Product Name:** Clover Mini, Clover Station Duo Terminal

**Brand Name:** Clover

C305, C505 Model No.:

Refer to section 1.2 **Model Difference:** 

FCC ID HFS-C305

IC: 1787B-C305

Date of EUT Received: Jan. 03, 2025

**Issue Date:** Mar. 12, 2025

Approved By

# We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01 and RSS-102 issue 6.

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

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.

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Page: 2 of 10

Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
TESA2501000012ES	00	Class II permissive change for change End Front Module	Mar. 12, 2025	Kimmy Chiou					

### Note:

- 1 . The remark "\*" indicates modification of the report upon requests from certification
- 2 · Variant information of model numbers / product name is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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Page: 3 of 10

# **Contents**

1	DE	ESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	4
		PRODUCT DESCRIPTION	
		Model Difference	
	1.3	EVALUATION SITE	4
	1.4	ANTENNA INFORMATION:	5
2	DE	ETEMINATION OF MPE EXEMPTION	6
	2.1	FCC	6
	2.2	Multiple RF Sources Evaluation Results	8
3	MA	AXIMUM PERMISSIBLE EXPOSURE (MPE)	9
	3.1	STANDARD APPLICABLE	9
	3.2	MAXIMUM PERMISSIBLE EXPOSURE (MPE) EXEMPTION	10

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Page: 4 of 10

# **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**

# **Product Description**

Product Name:	Clover Mini, Clover Station Duo Terminal
Brand Name:	Clover
Model No.:	C305, C505

#### 1.2 **Model Difference**

- 1. The components for printer are not mounted and there is no printer module for C505.
- 2. C505 doesn't have the paper compartment for printer.
- 3. C505 doesn't have the printer function.

#### 1.3 **Evaluation site**

Laboratory		Site Address FCC ISED  Designation Company number Number			CAB Identifier
SGS Taiwan Ltd.	$\boxtimes$	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	
Central RF Lab. (TAF code 3702)		No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	TW3702
		1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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Page: 5 of 10

# **Antenna Information:**

# BT / WLAN 2.4GHz

Antenna Type	Supplier	Main / Antenna Aux Part No.		Freq. (MHz)	Peak Antenna Gain (dBi)	MIMO Antenna Gain (dBi)
DIEA	CAN	Main	DQ60AYP6Y35	2.404-	2.12	4.92
PIFA	CAN	Aux	DQ60AYP6Y36	DQ60AYP6Y36 2.4GHz 1.78		4.92

### WLAN 5GHz

Antenna Type	Supplier	Antenna Part No.	Main / Aux	Note
PIFA	CAN	DQ60AYP6Y35	Main	Ant 1
FIFA	CAN	DQ60AYP6Y36	Aux	Ant 2

Operating Frequency (MHz)	Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)	MIMO Gain
5150.0 ~ 5250.0	2.77	2.45	5.62
5250.0 ~ 5350.0	2.45	1.92	5.2
5470.0 ~ 5725.0	2.81	2.86	5.85
5725.0 ~ 5850.0	3.47	2.99	6.24

### **WWAN**

Antenna Type	Antenna Part No.
COUPLING	DQ60AYF0000

Operating Frequency (MHz)								
LTE-Band 2	1850	~	1910	1.61				
LTE-Band 4	1710	~	1755	2.19				
LTE-Band 5	824	~	849	0.37				
LTE-Band 12	699	~	716	2.07				
LTE-Band 13	777	~	787	1.71				
LTE-Band 17	704	~	716	2.07				
LTE-Band 66	1710	~	1780	2.19				

Note: Antenna information is provided by the applicant.

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Page: 6 of 10

# 2 DETEMINATION OF MPE EXEMPTION

# 2.1 FCC

# 2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by:

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

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and  $f$  is in GHz;

and

$$ERP_{20~cm}~(\text{mW}) = \begin{cases} 2040f & 0.3~\text{GHz} \le f < 1.5~\text{GHz} \\ \\ 3060 & 1.5~\text{GHz} \le f \le 6~\text{GHz} \end{cases}$$

d = the separation distance (cm);

**Note:** when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

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Page: 7 of 10

# Table 1 to $\S 1.1307(b)(3)(i)(C) -$

Single RF Sources Subject to Routine Environmental Evaluation

	RF Source frequency (MHz)		Minii	mum Dis	tance	Threshold ERP (W)
fL		fH	λL / 2π		λΗ / 2π	
0.3	-	1.34	159m	-	35.6m	1920 R <sup>2</sup>
1.34	-	30	35.6m	-	1.6m	3450 R <sup>2</sup> /f <sup>2</sup>
30	-	300	1.6m	-	159mm	3.83 R <sup>2</sup>
300	-	1500	159mm	-	31.8mm	0.0128 R <sup>2</sup> f
1500	-	100000	31.8mm	-	0.5mm	19.2R <sup>2</sup>

R= minimum separation distance in meter

f = frequency in MHz

#### 2.1.2 **Multiple RF Sources**

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

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Page: 8 of 10

# Single RF Source Evaluation Results

ANT	Frequency (MHz)	Max. tune-up power	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance	num actual Minimum distance separation ERPth (W) ERP/ERF		ERP/ERPth		trar	nultar nsmi: mod	ssic es	on	
		(dBm)	` ′			( $\lambda/2\pi$ ) (m)	distance(m)				2	3	4	5	6
BT	2480	6.5	1.78	6.13	0.004	0.0193	0.200	0.768	0.005	٧		Ш			
WLAN 2.4G	2412	20	4.92	22.77	0.189	0.0198	0.200	0.768	0.246						
WLAN 5.2G	5150	20.5	5.62	23.97	0.249	0.0093	0.200	0.768	0.324						
WLAN 5.3G	5320	20.5	5.2	23.55	0.226	0.0090	0.200	0.768	0.294						
WLAN 5.6G	5500	20.5	5.85	24.2	0.263	0.0087	0.200	0.768	0.342						
WLAN 5.8G	5725	20.5	6.24	24.59	0.288	0.0083	0.200	0.768	0.375	٧					
LTE-Band 2	1857.5	22	1.61	21.46	0.140	0.0257	0.200	0.768	0.182						
LTE-Band 4	1753.5	22.5	2.19	22.54	0.179	0.0272	0.200	0.768	0.233						
LTE-Band 5	846.5	23	0.37	21.22	0.132	0.0564	0.200	0.433	0.305						
LTE-Band 12	707.5	23.5	2.07	23.42	0.220	0.0675	0.200	0.362	0.608	٧					
LTE-Band 13	779.5	22.5	1.71	22.06	0.161	0.0613	0.200	0.399	0.404						
LTE-Band 17	706.5	23	2.07	22.92	0.196	0.0676	0.200	0.362	0.541						
LTE-Band 66	1778.5	23	2.19	23.04	0.201	0.0269	0.200	0.768	0.262						

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (Pth or ERPth), so they are exempt from RF exposure testing.

#### **Multiple RF Sources Evaluation Results** 2.2

Simultaneous transmission modes	Σ ERP/ERPt h	Criteria
1	0.988	1

### Note:

1. Σ(ERP/ERPth): This is a summation of [(ERP of RF source / exemption threshold ERP for RF

Considering the collocated transmitters, the aggregated (ERP/ERPth) is smaller than 1, and MPE of collocated transmitters is compliant

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Page: 9 of 10

# **MAXIMUM PERMISSIBLE EXPOSURE (MPE)**

#### 3.1 Standard Applicable

According to RSS-102 issue 6 § 6.6 RF Exposure Evaluation

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 4.49/f0.5W

(adjusted for tune-up tolerance), where f is in MHz

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1.31×10-2f0.6834W

(adjusted for tune-up tolerance), where f is in MHz

at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

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# 3.2 Maximum Permissible Exposure (MPE) Exemption

Operation Mode	Evaluation Frequency (MHz)	Max. output Power include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (W)	Limit (W)	Max. EIRP / Limit	Pass / Fail	Simultaneous transmission modes		7		
BT	2480.00	6.5	1.78	0.01	2.736	0.004	Pass	٧				
WLAN 2.4G	2412.00	20	4.92	0.31	2.684	0.115	Pass	٧				
WLAN 5.2G	5150.00	20.5	5.62	0.41	4.507	0.091	Pass					
WLAN 5.3G	5320.00	20.5	5.20	0.37	4.608	0.080	Pass					
WLAN 5.6G	5500.00	20.5	5.85	0.43	4.714	0.091	Pass					
WLAN 5.8G	5725.00	20.5	6.24	0.47	4.845	0.097	Pass					
LTE-Band 2	1857.50	22	1.61	0.23	2.245	0.102	Pass					
LTE-Band 4	1753.50	22.5	2.19	0.29	2.159	0.134	Pass					
LTE-Band 5	846.50	23	0.37	0.22	1.312	0.168	Pass					
LTE-Band 12	707.50	23.5	2.07	0.36	1.161	0.310	Pass	٧				
LTE-Band 13	779.50	22.5	1.71	0.26	1.240	0.210	Pass					
LTE-Band 17	706.50	23	2.07	0.32	1.160	0.276	Pass					
LTE-Band 66	1778.50	23	2.19	0.33	2.180	0.151	Pass					

**Note:** For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

# 3.2.1 Exemption evaluation for simultaneous transmission

Simultaneous transmission modes	$\begin{array}{c} \Sigma \\ \text{Max.} \\ \text{EIRP/Limt} \end{array}$	Criteria
1	0.429	1

# Note:

- 1.  $\Sigma(EIRP / Limit)$ : This is a summation of [(EIRP for each transmitter/antenna included in the simultaneous transmission) / (corresponding exemption limit)].
- 2. Considering the collocated transmitters, the summation of (EIRP /limit) is smaller than 1, so the MPE of simultaneous transmission is compliant.

# ~ End of Report ~

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