

RF EXPOSURE REPORT



Applicant: Precor Incorporated
20031 142nd Ave NE, Woodinville , WA 98072, USA

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Precor console

Brand Name: Precor

Model No.: P84, P94

Model Difference: LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")

Report Number: TESA2304000235E5

FCC ID SZNPRCR304233

IC: 7156A-PRCR304233

Issue Date: June 21, 2023

Date of EUT Received: April 20, 2023

John Yeh
Approved By _____

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091 and RSS-102.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2304000235E5	00	Original.	June 21, 2023	Tiffany Kao	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Precor console
Brand Name:	Precor
Model No.:	P84, P94
Model Difference:	LCD panel difference, LCD panel size (P84:15.6", P94: 21.5")
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	TE_SP_20230403309
Power Supply:	12V

1.2 Evaluation site

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

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1.3 Antenna Information:

The antenna information is provided by the applicant.

1.3.1 BT / WLAN 2.4GHz

Antenna Type	Supplier	WIFI 0 / WIFI 1	Antenna Model	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	AWAN	WIFI 0	DQ60AEP8P00	2.4GHz	2.83
		WIFI 1	DQ60AEP8P01		2.84
Dipole	AWAN	WIFI 0	DQ60AEP8P02	2.4GHz	2.63
		WIFI 1	DQ60AEP8P04		2.47

1.3.2 WLAN 5GHz

Antenna Type	Supplier	Antenna Model	WIFI 0 / WIFI 1	Note
Dipole	AWAN	DQ60AEP8P00	WIFI 0	Ant 1
		DQ60AEP8P01	WIFI 1	Ant 2
Dipole	AWAN	DQ60AEP8P02	WIFI 0	Ant 3
		DQ60AEP8P04	WIFI 1	Ant 4

Operating Frequency (MHz)	Ant 1 Peak Gain (dBi)	Ant 2 Peak Gain (dBi)	Ant 3 Peak Gain (dBi)	Ant 4 Peak Gain (dBi)
5150.0 ~ 5250.0	2.85	2.74	2.75	2.79
5250.0 ~ 5350.0	2.85	2.74	2.75	2.79
5470.0 ~ 5725.0	2.85	2.74	2.75	2.79
5725.0 ~ 5850.0	2.85	2.74	2.75	2.79

Note: Antenna information is provided by the applicant.

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1.4 Rated Power

1.4.1 Bluetooth / WLAN 2.4GHz

Mode	Freq. Range (MHz)	Channels	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BR+EDR	2402-2480	79	GFSK + π/4DQPSK + 8DPSK	5	2.84	7.84	
BLE	2402-2480	40	GFSK	5	2.84	7.84	
WLAN2.4GHz	2412-2462	11	DSSS & OFDM	16	2.84	18.84	V

1.4.2 WLAN 5GHz (FCC):

802.11	Freq. Range (MHz)	Modulation Technology	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
a	5150~5250	OFDM	10.50	2.85	13.35	
	5250~5350		16.50	2.85	19.35	V
	5470~5725		16.50	2.85	19.35	V
	5725~5850		16.50	2.85	19.35	V
n HT20 ac VHT20	5150~5250		11.00	2.85	13.85	
	5250~5350		15.50	2.85	18.35	
	5470~5725		15.50	2.85	18.35	
	5725~5850		15.50	2.85	18.35	
n HT40 ac VHT40	5150~5250	OFDM	13.50	2.85	16.35	
	5250~5350		13.50	2.85	16.35	
	5470~5725		13.50	2.85	16.35	
	5725~5850		13.50	2.85	16.35	
ac VHT80	5150~5250	OFDM	13.50	2.85	16.35	
	5250~5350		10.50	2.85	13.35	
	5470~5725		13.50	2.85	16.35	
	5725~5850		13.50	2.85	16.35	

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1.4.3 WLAN 5GHz (IC):

802.11	Freq. Range (MHz)	Modulation Technology	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Power Density (PD) (W/m ²)	Limit (W/m ²)	Power Density / Limit	Worst Case
a	5180 ~ 5240	OFDM	10.50	2.85	13.35	0.043	9.047	0.005	
	5260 ~ 5320		16.50	2.85	19.35	0.171	9.142	0.019	V
	5500 ~ 5580		16.50	2.85	19.35	0.171	9.425	0.018	V
	5660 ~ 5700		16.50	2.85	19.35	0.171	9.612	0.018	V
	5745 ~ 5825		16.50	2.85	19.35	0.171	9.710	0.018	V
	5180 ~ 5240		11.00	2.85	13.85	0.048	9.047	0.005	
	5260 ~ 5320		15.50	2.85	18.35	0.136	9.142	0.015	
	5500 ~ 5580		15.50	2.85	18.35	0.136	9.425	0.014	
	5660 ~ 5700		15.50	2.85	18.35	0.136	9.612	0.014	
	5745 ~ 5825		15.50	2.85	18.35	0.136	9.710	0.014	
n HT40 ac VHT40	5190 ~ 5230		13.50	2.85	16.35	0.086	9.059	0.009	
	5270 ~ 5310		13.50	2.85	16.35	0.086	9.154	0.009	
	5510 ~ 5550		13.50	2.85	16.35	0.086	9.437	0.009	
	5670 ~ 5670		13.50	2.85	16.35	0.086	9.624	0.009	
	5755 ~ 5795		13.50	2.85	16.35	0.086	9.722	0.009	
ac VHT80	5210 ~ 5210		13.50	2.85	16.35	0.086	9.083	0.009	
	5290 ~ 5290		10.50	2.85	13.35	0.043	9.178	0.005	
	5530 ~ 5530		13.50	2.85	16.35	0.086	9.460	0.009	
	5775 ~ 5775		13.50	2.85	16.35	0.086	9.745	0.009	

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2 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 (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (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
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

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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2.2 ISED Standard Applicable

This submittal(s) (test report) is intended to comply with RSS-102 issue 5 Radio frequency Radiation Exposure requirement.

This is a Mobile device, the MPE is required.

Limits for Maximum Permissive Exposure (MPE)

RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)				
Frequency Range (MHz)	Electric Field (V/m rms)	Magnetic Field Strength (A/m rms)	Power Density (W/m ²)	Reference Period (minutes)
0.003-10	83	90	-	Instantaneous*
0.1-10	-	0.73/ $f^{0.5}$	-	6**
1.1-10	87/ $f^{0.5}$	-	-	6**
10-20	27.46	0.0728	2	6
20-48	58.07/ $f^{0.25}$	0.1540/ $f^{0.25}$	8.944/ $f^{0.5}$	6
48-300	22.06	0.05852	1.291	6
300-6000	3.142 $f^{0.3417}$	0.008335 $f^{0.3417}$	0.02619 $f^{0.6834}$	6
6000-15000	61.4	0.163	10	6
15000-150000	61.4	0.163	10	616000/ $f^{1.2}$
150000-300000	0.158 $f^{0.5}$	4.21 x 10-4 $f^{0.5}$	6.67 x 10-5 $f^{0.5}$	616000/ $f^{1.2}$

F = frequency in MHz

* = Based on nerve stimulation (NS).

** = Based on specific absorption rate (SAR)

Maximum Permissible Exposure (MPE) Evaluation

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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2.3 Power Density Calculation (Worst Case)

FCC Standalone MPE

Operation Mode (WIFI 0)	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE
WLAN 2.4G	2442.00	20	16	2.83	76.38	0.015	1.000	Pass	0.015	V
WLAN 5G	5180.00	20	16.5	2.85	86.10	0.017	1.000	Pass	0.017	V

Operation Mode (WIFI 1)	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2480.00	20	5	2.84	6.08	0.0012	1.000	Pass	0.001	V
WLAN 2.4G	2442.00	20	16	2.84	76.56	0.015	1.000	Pass	0.015	V
WLAN 5G	5180.00	20	16.5	2.74	83.95	0.017	1.000	Pass	0.017	V

NFC

Frequency (MHz)	E-FIELD dBuV/m	Test Distance (m)	EIRP (dBm)	EIRP (mW)
13.56	11.14	30	-64.01757	0.0000004

Note:

EIRP (dBm)= (E-FIELD(dBuV/m)+ 20log(d(m))-104.7

ISED Standalone MPE

Operation Mode (WIFI 0)	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (W/m ²)	Limit (W/m ²)	Pass / Fail	Power Density / Limit	Collocated MPE
WLAN 2.4G	2442.00	20	16	2.83	76.38	0.152	5.412	Pass	0.028	V
WLAN 5G	5180.00	20	16.5	2.85	86.10	0.171	9.047	Pass	0.019	V

Operation Mode (WIFI 1)	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (W/m ²)	Limit (W/m ²)	Pass / Fail	Power Density / Limit	Collocated MPE
BT	2480.00	20	5	2.84	6.08	0.012	5.469	Pass	0.002	V
WLAN 2.4G	2442.00	20	16	2.84	76.56	0.152	5.412	Pass	0.028	V
WLAN 5G	5180.00	20	16.5	2.74	83.95	0.167	9.047	Pass	0.018	V

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

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2.4 Collocated Power Density Calculation

FCC Collocated MPE

Operation Mode	Power Density / Limit (WIFI 0)	Power Density / Limit (WIFI 1)	Σ (Power Density / Limit)
BT	-	0.001	0.065
WLAN 2.4G	0.015	0.015	
WLAN 5G	0.017	0.017	
NFC	0.000	-	

ISED Collocated MPE

Operation Mode	Power Density / Limit (WIFI 0)	Power Density / Limit (WIFI 1)	Σ (Power Density / Limit)
BT	-	0.002	0.096
WLAN 2.4G	0.028	0.028	
WLAN 5G	0.019	0.018	
NFC	0.001	-	

Note:

1. Σ (Power Density / Limit): This is a summation of [(Power Density for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
2. Considering the collocated transmitters, the aggregated (Power Density /limit) is smaller than 1, and MPE of collocated transmitters is compliant

~ End of Report ~

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