

Powerview Display Corp.
Rm. 5, 6F., No. 32, Taiyuan St., Zhubei City, Hsinchu County
302 Taiwan (R.O.C.)

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product
Product description: Embedded Display System with CAN Bus
Model No: E070W1D1-4 v.1U

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

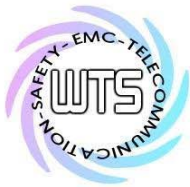
A safety statement concerning minimum separation distances from enclosure of the Product : Embedded Display System with CAN Bus will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21906-19141-C-1, W6M21906-19141-P-247 and the accompanying calculations.

Company: Powerview Display Corp.
Address: Rm. 5, 6F., No. 32, Taiyuan St., Zhubei City, Hsinchu County 302 Taiwan (R.O.C.)

Date: 2019-07-26

Signature 



Registration number: W6M21906-19141-C-1
FCC ID: 2AT5JE070W1D14V1U

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

BT 2.0.

Test exclusion = max. conducted output power

Test exclusion = 7.56 dBm

BT 4.0

Test exclusion = max. conducted output power

Test exclusion = 7.01 dBm

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v05r02

According to 447498 D01 General RF Exposure Guidance v05r02:

SAR evaluation, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

The enclosure of the device provides ≥ 0.5 cm separation from the antenna elements to significant metal parts of the enclosure to minimize potential perturbations.

Frequency Band: 2400-2483.5 MHz

Maximum Power fed to Antenna (BT2.0): 5.7016 mW

Maximum Power fed to Antenna (BT4.0): 5.0234 mW

Separation distances:

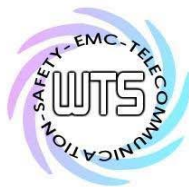
Radiator to user: > 5 mm

Distance prescribed in user manual: > 5 mm

MHz	5	10	15	20	25	mm
2450	10	19	29	38	48	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
2450	57	67	77	86	96	SAR Test Exclusion Threshold (mW)

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	mW



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10 Maximum Permissible Exposure

10.1 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{PG}{4\pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

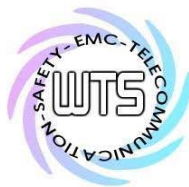
D – Cable Loss

AG – Antenna Gain

WCDMA Band II			
Item	Unit	Value	Remarks
P	dBm/mW	22.37/172.58	Peak value
D	dB		
AG	dB	1.54	
G		1.43	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.049	Calculated value

WCDMA Band IV			
Item	Unit	Value	Remarks
P	dBm/mW	23.61/229.61	Peak value
D	dB		
AG	dB	2.05	
G		1.60	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.073	Calculated value

WCDMA Band V			
Item	Unit	Value	Remarks
P	dBm/mW	21.10/128.83	Peak value
D	dB		
AG	dB	-1.81	
G		0.66	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.017	Calculated value



Worldwide Testing Services(Taiwan) Co., Ltd.

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LTE Band II			
Item	Unit	Value	Remarks
P	dBm/mW	22.23/167.11	Peak value
D	dB		
AG	dB	1.69	
G		1.48	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.049	Calculated value

LTE Band IV			
Item	Unit	Value	Remarks
P	dBm/mW	23.22/209.89	Peak value
D	dB		
AG	dB	2.06	
G		1.61	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.067	Calculated value

LTE Band XII			
Item	Unit	Value	Remarks
P	dBm/mW	20.45/110.917	Peak value
D	dB		
AG	dB	-6.94	
G		0.20	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0045	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0