Transmitter Solutions 2480 South 3850 West, Suite B Salt Lake City UT 84120 United States

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: Remote Controller Model No: TX100A

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 : Remote Controller 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: W6M21806-18167-C-1 and the accompanying calculations.

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Date: 2019-03-2 ignature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21806-18167-C-1 FCC ID: 2ASPOTX100A

## 3.2 **RF Exposure Compliance Requirements**

FCC Rule: 15.247(b)(3) Test exclusion = max. conducted output power Test exclusion = 29.28 dBm

Test equipment used: ETSTW-RE 055

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

Item	Unit	Value	Remarks
Р	mW	847.2274	Peak value
D	dB		
AG	dBi	3.32	
G		2.15	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.36	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure			
Frequency (MHz)	Power Density (mW/cm <sup>2</sup> )		
1500 - 100.000	1.0		