

RF Exposure / SAR Statement (Reference)

No. : 1932544H-C

Applicant	:	Aplix Corporation
Type of Equipment	:	JM1
Model No.	:	JM1L2S
FCC ID	:	O8CJM1L2S

Aplix Corporation declares that Model : JM1L2S
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile).
JM1L2S is intended to be used with 2 modules and the other module
ESP-WROOM-02(FCC ID:2AC7Z-ESPWROOM02) simultaneously within 20 cm.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain antenna provided with the “JM1L2S” as calculated
from FCC Part 1, §1.1310, TABLE 1 (B) Limits for General Population / Uncontrolled Exposure.
This calculation is based on the highest EIRP possible from the system,
considering maximum power and antenna gain, and considering a 1.0mW/cm² uncontrolled exposure limit. The Friis formula used was:

$$S = ((P1 * G1) + (P2 * G2) + (P3 * G3)) / (4 * \pi * r^2)$$

Where

P1 =	1.39	mW (Maximum peak output power) *1)	
P2 =	1.39	mW (Maximum peak output power) *2)	
P3 =	167.11	mW (Maximum peak output power) *3)	
G1 =	2.00	Numerical Antenna gain; equal to	3.00 dBi
G2 =	2.00	Numerical Antenna gain; equal to	3.00 dBi
G3 =	1.58	Numerical Antenna gain; equal to	2.00 dBi
r =	20.0	cm	

For: JM1L2S

$$S = 0.05363 \text{ mW/cm}^2$$

Even taking into account the tolerance, this device can be satisfied with the limits.

*1) Bluetooth Low Energy value (JM1L2S)

*2) Bluetooth Low Energy value (JM1L2S)

*3) Wireless LAN value (ESP-WROOM-02)

This calculation was made to show that the EUT complies with the limit in simultaneous transmitting of Wireless LAN and Bluetooth Low Energy.

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