

RF Exposure / SAR Statement (Reference)

No. : 1932544H-A

Applicant : **Aplix Corporation**
Type of Equipment : **JM 1**
Model No. : **JM 1L2S**
FCC ID : **O8CJM 1L2S**

Aplix Corporation declares that Model : JM 1L2S
complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091(for mobile).
JM 1L2S is intended to be used with the other module ESP-W ROOM -02(FCC ID:2A C7Z-ESPW ROOM 02)
simultaneously within 20 cm.

RF Exposure Calculations:

The following information provides the minimum separation distance for the highest gain
antenna provided with the "JM 1L2S" 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:

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

Where

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

For: JM 1L2S

$$S = 0.05308 \text{ mW/cm}^2$$

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

* 1) Bluetooth Low Energy value (JM 1L2S)

* 2) Wireless LAN value (ESP-W ROOM -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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