GIGA-TMS INC.
8F, NO.31, LANE 169, KANG-NING ST.,HSI-CHIH,
NEW TAIPEI CITY, Taiwan 22180

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: UHF RFID Reader
Model No: MU400

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 : UHF RFID Reader
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: W6M21805-18090-C-1 and the accompanying calculations.

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Date: 2018-07-05

Signature M.T. WANG

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)
Test exclusion = max. conducted output power
Test exclusion = 12.61 dBm

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v06

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

Item	Unit	Value	**Remarks**
P	mW	18.24	Peak value
D	dB		
AG	dBi	-1	
G		0.79	Calculated Value
R	cm	20	Assumed value
S	mW/cm^2	0.0029	Calculated value

Limits:

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