Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: HLEMT700NHF

Project No.	**: 1311156**
Equipment	**: Multi-functional T&A Terminal**
Model	**: MT700**
Applicant	**: unitech electronics co., ltd.**
Address	**: 5F, No. 136, Lane 235, Pao-Chiao Rd., Hsin-Tien Dist., New Taipei City, Taiwan**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Filed Antenna

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Joymax Electronics Co., Ltd.	IFF-3105IP XX-763	PIFA	I-PEX	2.50	TX/RX

TEST RESULTS

EUT：	Multi-functional T&A Terminal	Model Name ：	MT700
Temperature：	26°C	Relative Humidity：	60 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.50	1.7783	17.3300	54.0754	0.019140	1	Complies
2.50	1.7783	18.0500	63.8263	0.022592	1	Complies
2.50	1.7783	18.6100	72.6106	0.025701	1	Complies

EUT：	Multi-functional T&A Terminal	Model Name ：	MT700
Temperature：	26°C	Relative Humidity：	60 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.50	1.7783	20.8800	122.4616	0.043346	1	Complies
2.50	1.7783	21.1400	130.0170	0.046020	1	Complies
2.50	1.7783	22.1400	163.6817	0.057936	1	Complies

EUT：	Multi-functional T&A Terminal	Model Name ：	MT700
Temperature：	26°C	Relative Humidity：	60 %
Test Voltage ：	AC 120V/60Hz		
Test Mode ：	TX N-20M MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.50	1.7783	21.3800	137.4042	0.048635	1	Complies
2.50	1.7783	21.4900	140.9289	0.049883	1	Complies
2.50	1.7783	22.3800	172.9816	0.061228	1	Complies

The evaluated distance is 20cm.