



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: HLEMT700NEF

Project No. : 1311155
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

Neutron Engineering Inc.

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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	17.3100	53.8270	0.019052	1	Complies
2.50	1.7783	18.0300	63.5331	0.022488	1	Complies
2.50	1.7783	18.6300	72.9458	0.025820	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	20.9100	123.3105	0.043647	1	Complies
2.50	1.7783	21.1100	129.1219	0.045704	1	Complies
2.50	1.7783	22.1700	164.8162	0.058338	1	Complies



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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	21.4200	138.6756	0.049085	1	Complies
2.50	1.7783	21.5500	142.8894	0.050577	1	Complies
2.50	1.7783	22.3400	171.3957	0.060667	1	Complies

The evaluated distance is 20cm.