



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: HLEMT700NF

Project No. : 1311157
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	17.3600	54.4503	0.019273	1	Complies
2.50	1.7783	17.9800	62.8058	0.022231	1	Complies
2.50	1.7783	17.9800	62.8058	0.022231	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	21.2600	133.6596	0.047310	1	Complies
2.50	1.7783	21.0300	126.7652	0.044869	1	Complies
2.50	1.7783	22.0300	159.5879	0.056487	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	21.1800	131.2200	0.046446	1	Complies
2.50	1.7783	21.3900	137.7209	0.048747	1	Complies
2.50	1.7783	22.0700	161.0646	0.057010	1	Complies

The evaluated distance is 20cm.