

### FCC RF EXPOSURE REPORT

FCC ID: T58E1PR

**Equipment**: 300Mbps Wireless N Range Extender

Model : E1+

: NETIS SYSTEMS CO., LTD **Applicant** 

Address

4F&5F R&D Building, Oriental Cyberport, High-Tech Industrial Park, Nanshan, Shenzhen, China.

According: : 300Mbps Wireless N Range Extender

## BTL 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.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Internal	N/A	2.0	TX/RX
2	N/A	N/A	Internal	N/A	2.0	TX/RX



# **TEST RESULTS**

IF()	300Mbps Wireless N Range Extender	Model Name :	E1+		
Temperature:	<b>26</b> ℃	Relative Humidity:	62 %		
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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	19.46	88.3080	0.02785803	1	Complies
2	1.5849	19.86	96.8278	0.03054572	1	Complies
2	1.5849	19.33	85.7038	0.02703649	1	Complies

	300Mbps Wireless N Range Extender	Model Name :	E1+		
Temperature:	<b>26</b> ℃	Relative Humidity:	62 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX G MODE /CH01, CH06, CH1	1			

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	25.41	347.5362	0.10963529	1	Complies
2	1.5849	25.37	344.3499	0.10863015	1	Complies
2	1.5849	24.94	311.8890	0.09838987	1	Complies



	300Mbps Wireless N Range Extender	Model Name :	E1+		
Temperature:	<b>26</b> ℃	Relative Humidity:	62 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	26.52	448.7454	0.14156320	1	Complies
2	1.5849	26.63	460.2566	0.14519457	1	Complies
2	1.5849	26.48	444.6313	0.14026534	1	Complies

EUT:	300Mbps Wireless N Range Extender	Model Name :	E1+		
Temperature:	<b>26</b> ℃	Relative Humidity:	62 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	TX N-40M MODE_Total /CH03, CH06, CH09				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	1.5849	27.1	512.8614	0.16178951	1	Complies
2	1.5849	26.94	494.3107	0.15593743	1	Complies
2	1.5849	27	501.1872	0.15810673	1	Complies

Note: the calculated distance is 20 cm.