

**TP-LINK®**

# Antenna Specification



Product Number:

Product Name: Antenna

**TP-LINK®**

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Product Number:  
Product Name: Antenna

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## Specification For Approval

Date: \_\_\_\_\_  
File No. : \_\_\_\_\_  
Version: 1.0

Customer: \_\_\_\_\_ / \_\_\_\_\_

Customer P/N : \_\_\_\_\_ / \_\_\_\_\_

TP-LINK P/N: \_\_\_\_\_

Description: RE815XE(US) 1.0

<b>TP-LINK Checked By:</b>
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<b>Customer Approved By:</b>
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## I. Specification

A. Electrical Characteristics	
Frequency	2400~2500MHz&5150~5850MHz&5.925~7.125GHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Dipole
Antenna Gain	3.0dBi@2.4~2.5GHz&5.18~5.85GHz 3.0dBi@5.925~7.125GHz
Polarization	Linear
Radiation pattern	Omni-Directional

## II. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	ETS AMS-8923
Testing Equipment	Agilent E5071C

### PeakGain

2GHz Peak Gain											
Freq (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Ant1	2.47	2.57	2.51	2.37	2.41	2.62	2.54	2.63	2.79	2.68	3.00
Ant2	2.80	3.00	2.72	2.46	2.39	2.38	2.28	2.29	2.02	1.94	1.95

5G Peak Gain								
Freq (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Ant1	2.58	2.69	2.57	2.54	2.35	2.44	2.59	2.54
Ant2	2.22	2.92	2.48	2.55	2.24	2.77	2.87	2.45
Freq (MHz)	5650	5700	5750	5800	5850			
Ant1	2.39	2.02	2.49	2.00	2.05			
Ant2	2.46	3.00	2.65	2.23	2.63			

6G Peak Gain											
Freq. (MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Ant3	2.35	1.16	1.26	1.19	2.12	2.51	2.34	2.72	2.55	2.78	2.82
Ant4	2.35	1.16	1.26	2.19	2.12	2.51	2.34	2.72	2.55	2.78	2.82
Freq. (MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Ant3	2.62	2.74	2.47	2.69	2.26	2.61	2.51	2.62	1.22	2.38	3.00

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Ant4	2.62	2.74	2.47	2.69	2.26	2.61	2.51	2.62	3.00	2.38	2.97
Freq. (MHz)	7025	7075	7125								
Ant3	2.57	2.85	2.92								
Ant4	2.57	2.85	2.92								

### Efficiency

2GHz Efficiency											
Freq (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Ant1	74.68	74.94	74.67	73.59	73.77	74.06	73.37	72.99	72.49	71.44	71.21
Ant2	76.91	77.85	78.07	77.51	78.12	78.69	78.36	77.84	77.02	75.51	74.73

5G Efficiency								
Freq (MHz)	5150	5200	5250	5300	5350	5400	5450	5500
Ant1	67.39	67.28	66.19	66.61	65.34	66.53	68.09	69.31
Ant2	70.85	69.75	66.72	66.60	65.33	65.32	66.79	68.53
Freq (MHz)	5550	5600	5650	5700	5750	5800	5850	
Ant2	70.24	70.88	73.05	75.68	73.77	73.26	72.57	
Ant2	71.49	71.73	73.88	77.65	78.09	77.27	74.70	

6G Efficiency											
Freq. (MHz)	5925	5975	6025	6075	6125	6175	6225	6275	6325	6375	6425
Ant3	62.48	64.30	62.91	72.72	73.12	76.57	76.12	72.58	73.37	66.58	66.37
Ant4	73.03	71.51	67.24	73.03	70.78	73.29	74.10	73.84	77.08	73.91	74.07
Freq. (MHz)	6475	6525	6575	6625	6675	6725	6775	6825	6875	6925	6975
Ant3	65.39	66.13	69.59	70.39	74.43	74.50	74.96	72.76	71.63	64.80	65.23
Ant4	72.46	70.24	70.53	68.24	69.22	69.82	71.59	72.62	74.71	70.49	71.45
Freq. (MHz)	7025	7075	7125								
Ant3	65.90	66.05	68.03								
Ant4	70.78	68.20	67.19								

Theta=90°



