



Antenna Specification



Product Number: EAP650-Outdoor 1.0

Product Name: Antenna

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Product Name: Antenna

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Specification For Approval

Date: _____

File No. : _____

Version: 1.0

Customer: _____ / _____

Customer P/N : _____ / _____

TP-LINK P/N: EAP650-Outdoor 1.0

Description:

TP-LINK Checked By:
Customer Approved By:

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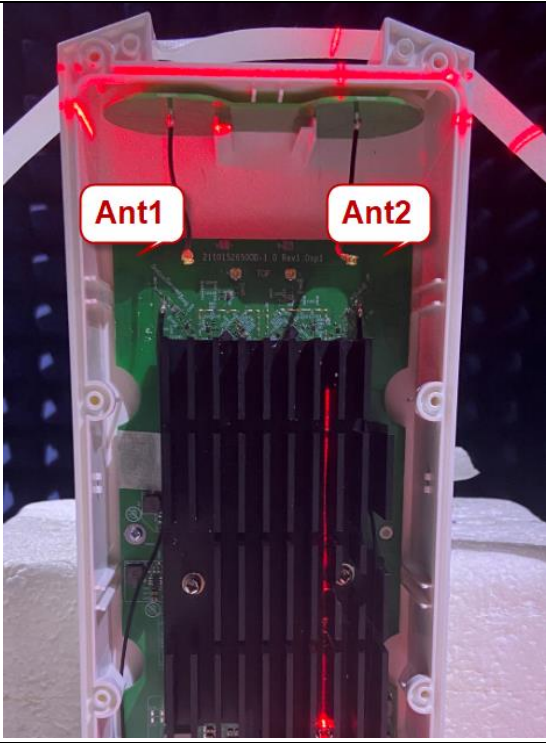
+ 86 755 26504400

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I. Specification

Antenna distribution	
	
A. Electrical Characteristics	
Frequency	2400 ~ 2500 MHz&5150~5850MHz
Impedance	50 Ohm
S.W.R.	<= 2.0
Antenna Type	Onboard Monopole
Antenna Gain	2.0dBi@2.4~2.5GHz 3.0dBi@5.15~5.85GHz
Max Input Power	<= 2 W
Polarization	Linear
Radiation pattern	Omni-Directional
B. Material & Mechanical Characteristics	
Material of Radiator	Cu
Material of Plastic	PCB: FR-4

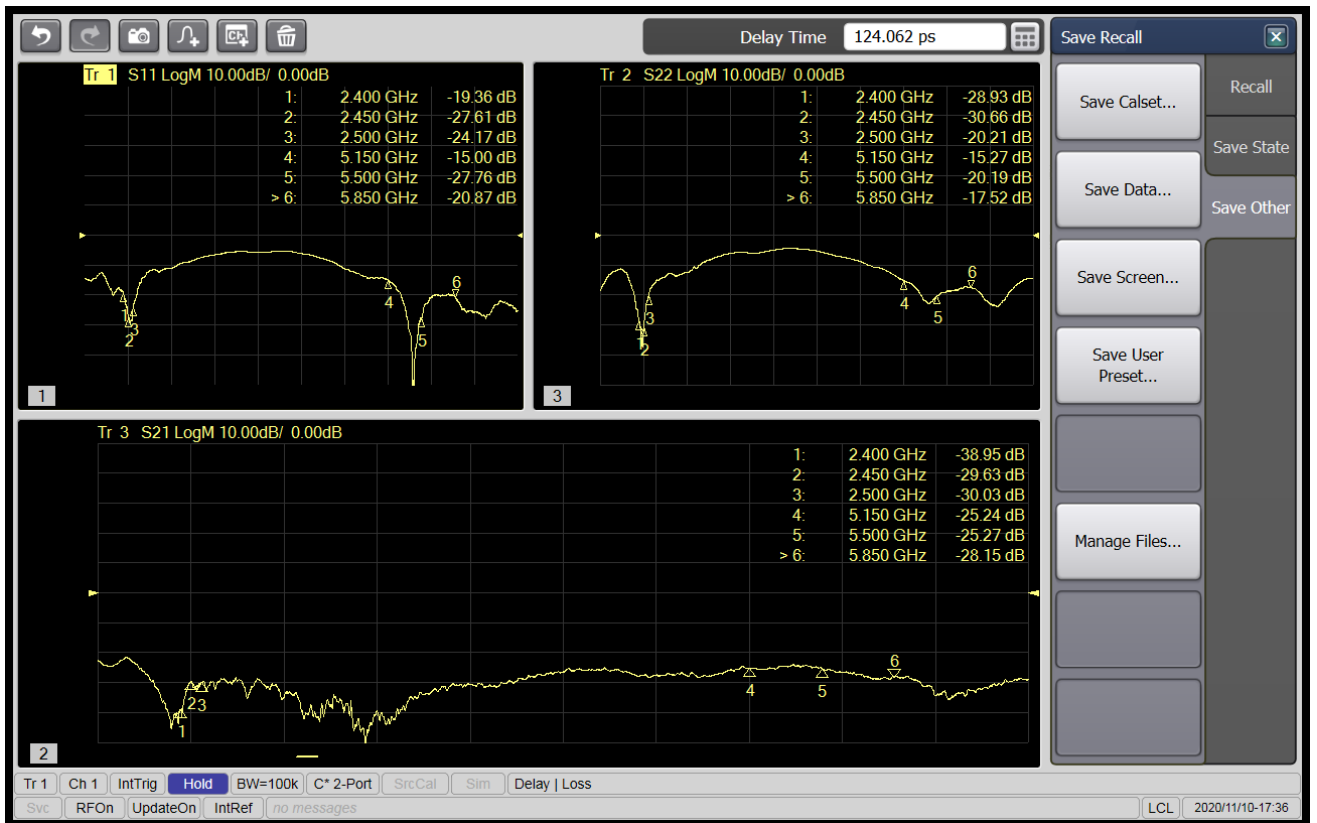
II. Antenna – S Parameter Test Data

S Parameter:

Product Number: EAP650-Outdoor 1.0

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III. Antenna – Radiation Pattern Test Data

Testing Equipment Specification	
Microwave Chamber	ETS AMS-8923
Vector Network Analyzer	Agilent E5080C

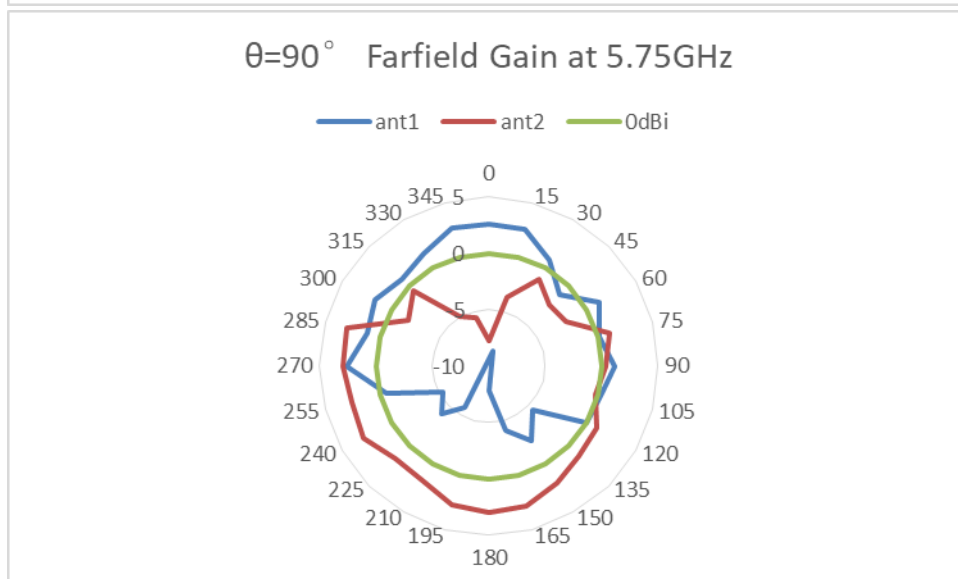
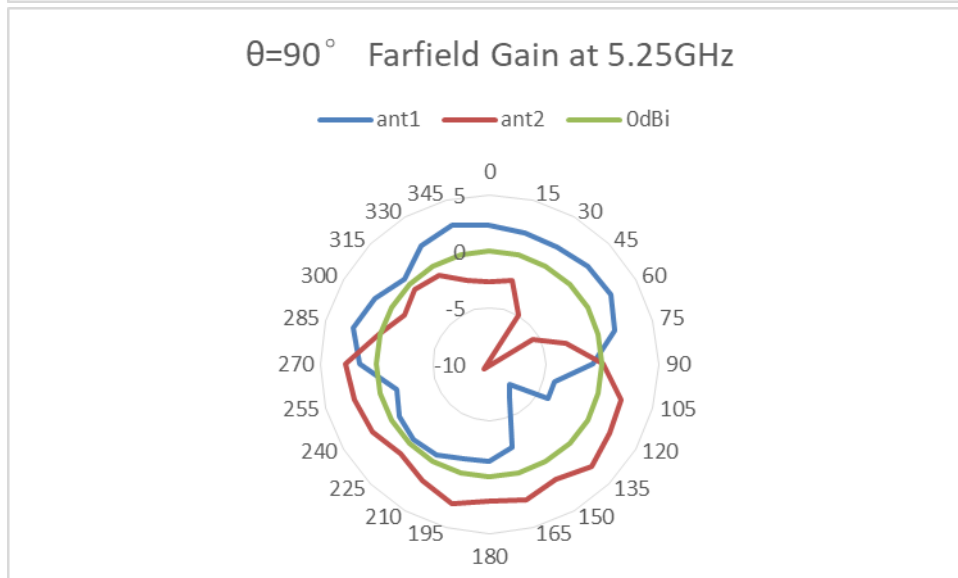
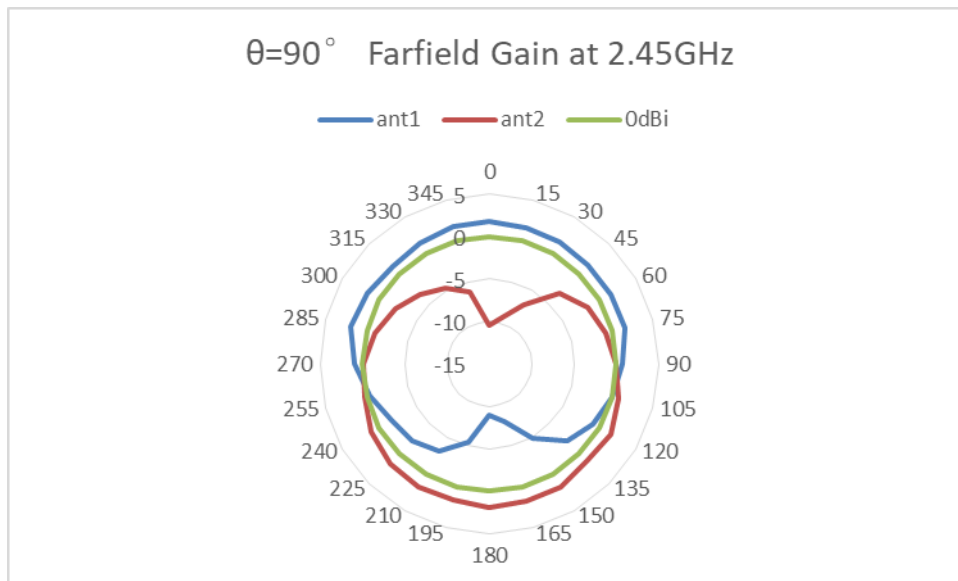
Peak Gain @2400~2500 MHz:

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
ant1	1.83	1.88	1.87	1.68	1.92	1.96	1.86	2.00	1.53	1.75	1.88
ant2	1.85	1.30	2.00	1.48	1.36	1.76	1.91	1.82	1.95	1.28	1.29

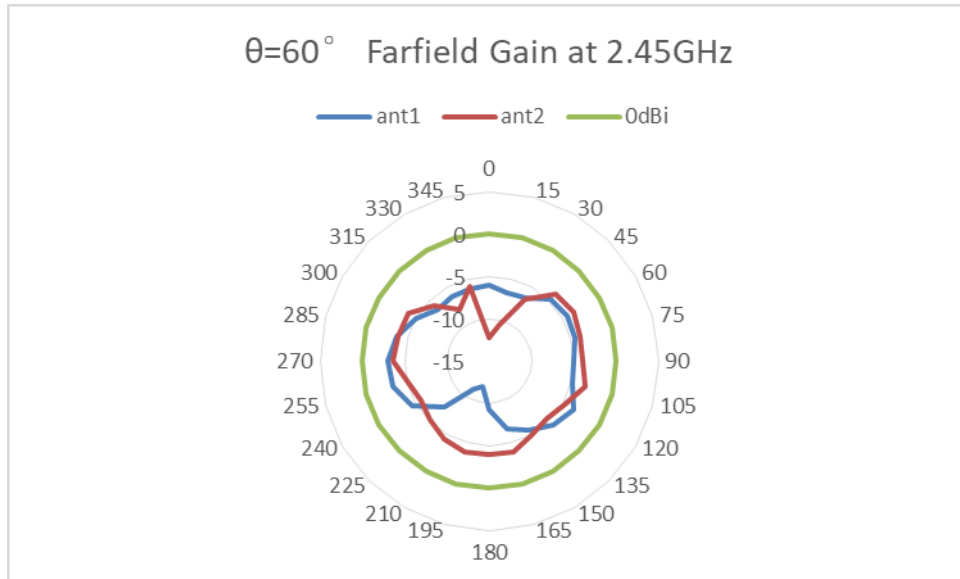
Peak Gain @5150~5850 MHz:

Frequency	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600
ant1	2.53	2.36	2.96	2.94	3.00	2.92	2.91	2.18	2.60	2.81
ant2	2.80	2.04	2.14	3.00	2.26	2.31	2.34	2.52	2.93	2.14
Frequency	5650	5700	5750	5800	5850					
ant1	2.02	2.95	2.95	2.87	2.76					
ant2	2.24	2.10	2.01	2.04	2.88					

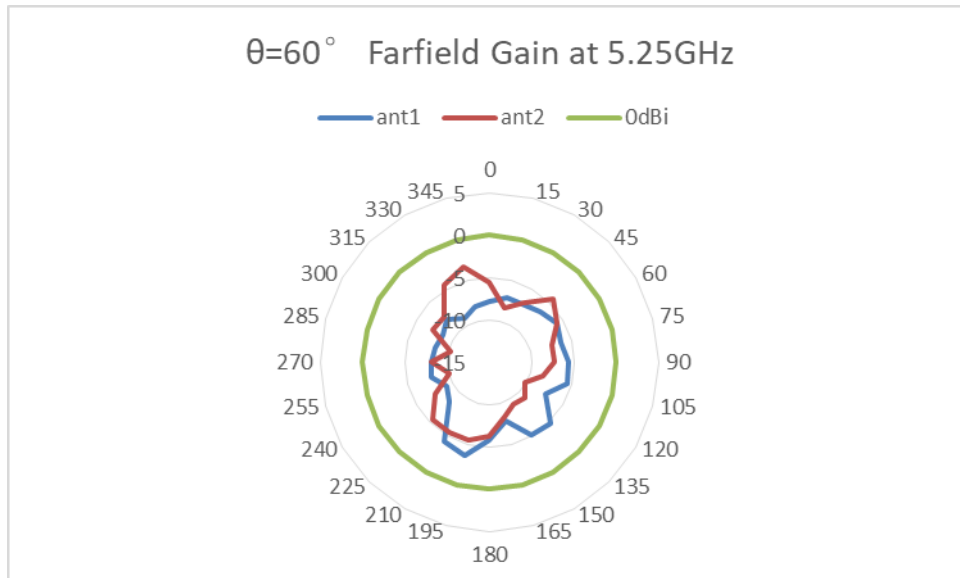
Theta=90°



2.45GHz PeakGain at elevation angle above 30°=-3.05dBi



5.25GHz PeakGain at elevation angle above $30^\circ = -3.41\text{dBi}$



5.75GHz PeakGain at elevation angle above $30^\circ = -3.83\text{dBi}$

