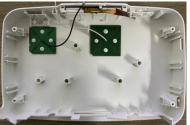
## **DATA SHEET**

# ARUBA ANTENNA

## **ANT-605**R

The Model ANT-605R's superior performance is derived by combining the benefits of four high gain antenna elements with high isolation between each beam. This Omnidirectional and high isolation improves the SNR in MIMO channels, thereby increasing the range and throughput of WLAN, devices. The Model ANT-605R supports independent Triband transmission in the 2.4GHz band, the 4.9 to 5.9GHz Band and 5.9GHz-7.2GHzband, BT and GPS.





#### FREQUENCY/UNCORRELATED GAIN

4.4dBi @ 2.4 GHz, 4.7dBi @ 5GHz, 4.7dBi @ 6GHz, 5.1dBi @ BLE, 2.7dBi @ GNSS

#### **DIMENSIONS**

206.15\*208.37\*20.7 mm

#### **WEIGHT**

120.5.g ( 0.5 lbs)

#### Material

Plate: Aluminum Carrier: Plastic

Antenna: Metal/PCB

#### **IMPEDANCE**

50 ohms

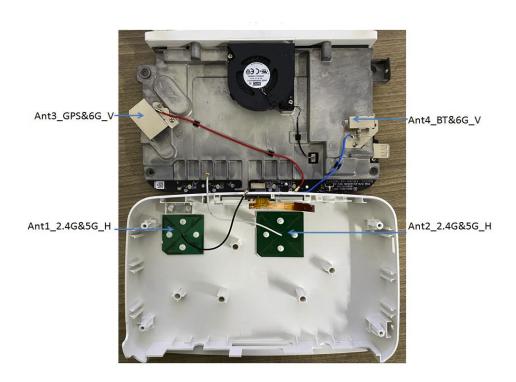
#### **OPERATING TEMPER ATURE**

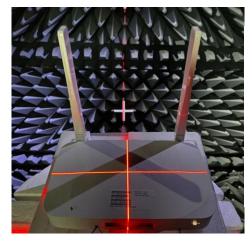
-40° C to +55° C

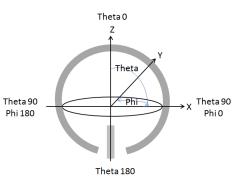
#### **VSWR**

2:1 max

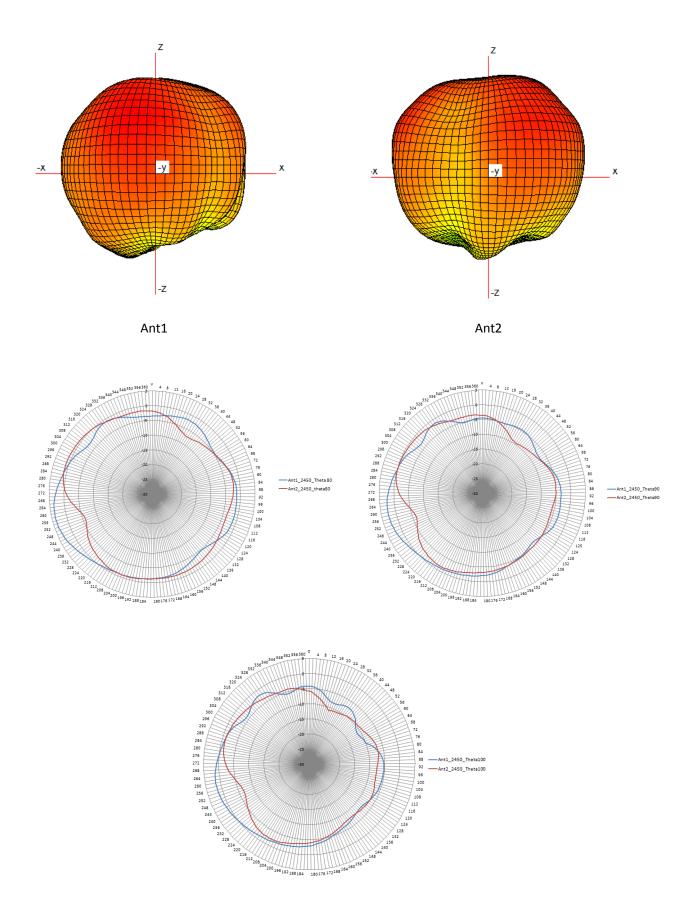
## **ANTENNA PATTERN PLOTS**



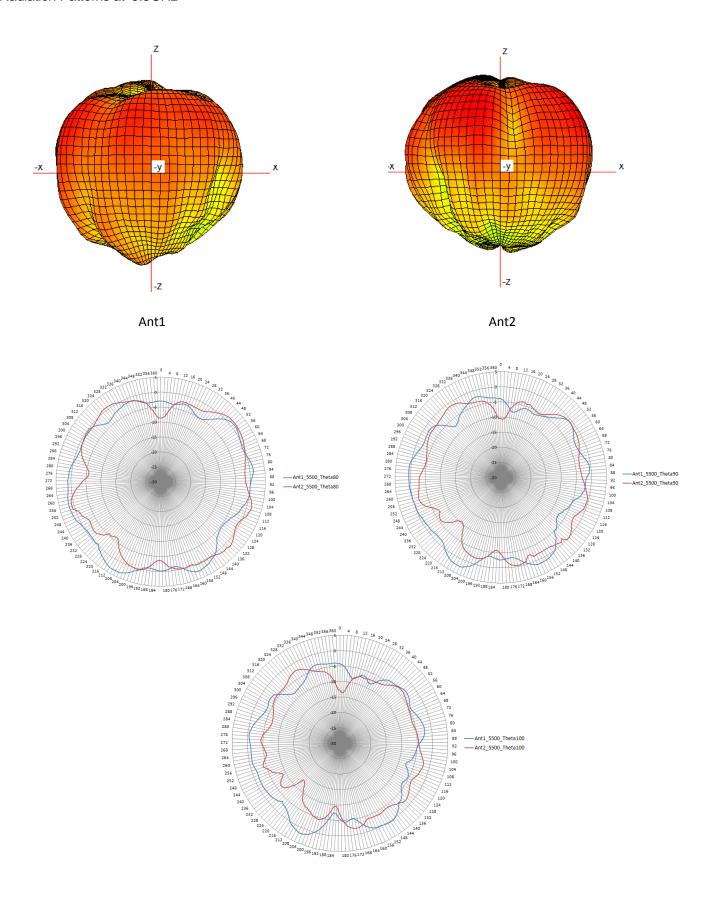




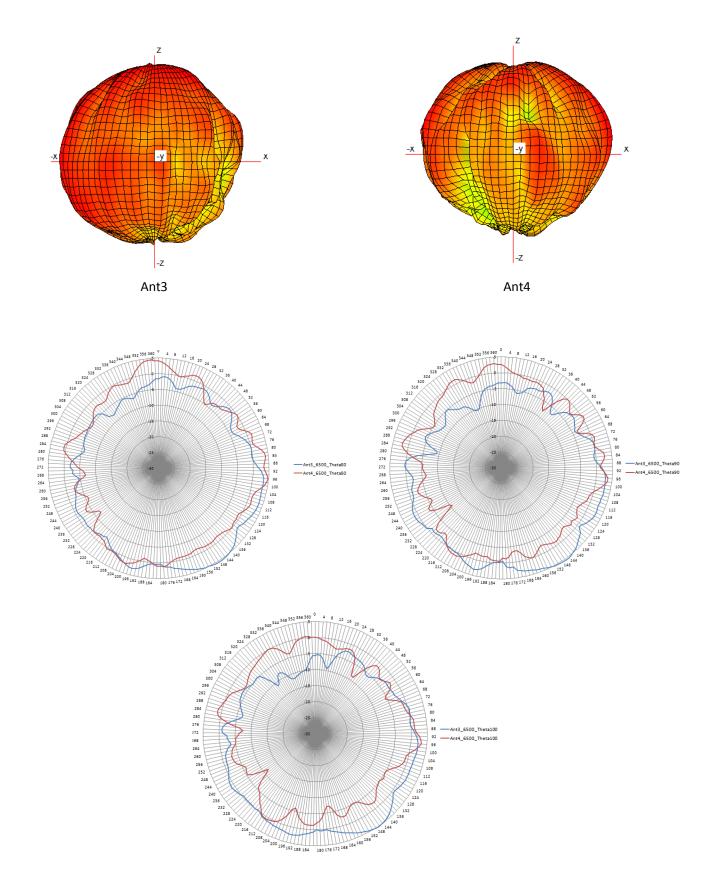
#### Radiation Patterns at 2.45 GHz



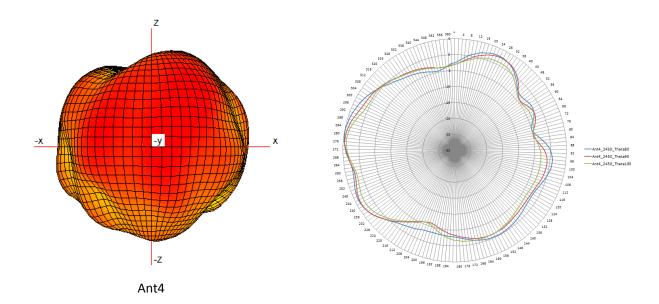
#### Radiation Patterns at 5.5GHz



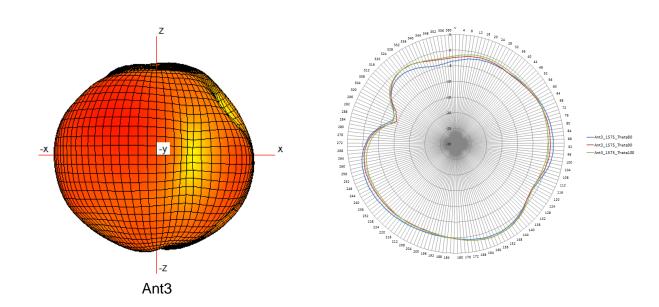
## Radiation Patterns at 6.5GHz



## Radiation Patterns at BLE



## Radiation Patterns at GNSS



## **Results summary at 2.4G**

	S11	(dB)	Efficie	ency(%)	Max Gain(dB	ii)	Isolation	n(dB)	Flatness(dB)			
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result		
Ant1					3dRizMay Cainz5dRi			5.3 @ 2.40Ghz	20dB vs Ant2	18dB	10dB @	8.5@ theta80
(2.4G+5G H)	-10	9.6	70	73%		5.5 @ 2.45Ghz	25dB vs Ant3&Ant4	26dB	theta80	10 @ theta90		
						4.9 @ 2.49Ghz	30dB vs Ant LTE	30dB	/90/100	12.6@ theta100		
Ant2						4.2 @ 2.40Ghz	20dB vs Ant1	18dB	10dB @	8.2@ theta80		
(2.4G+5G H)	-10	9.8	70	67%	3dBi <max gain<5dbi<="" td=""><td>3.9 @ 2.45Ghz</td><td>25dB vs Ant3&amp;Ant4</td><td>31dB</td><td>theta80</td><td>9.4@ theta90</td></max>	3.9 @ 2.45Ghz	25dB vs Ant3&Ant4	31dB	theta80	9.4@ theta90		
ĺ						4.5 @ 2.49Ghz	30dB vs Ant LTE	29dB	/90/100	10.1@ theta100		

Frequency (Mhz)	Uncorrelated Gain (dBi)	correlated Gain (dBi)
2400	3.4	6.4
2450	4.1	7.1
2490	4.4	7.4

## Results summary at 5G

	S11(dB)		Efficie	ency(%)	cy(%) Max Gain(dBi)		Isolation	Isolation(dB)		atness(dB)
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant1					3dBi <max 5ghz<="" @="" gain<5.5dbi="" td=""><td>5.3 @ 5.1Ghz</td><td>20dB vs Ant2</td><td>18dB</td><td>10dB@</td><td>9.8@ theta80</td></max>	5.3 @ 5.1Ghz	20dB vs Ant2	18dB	10dB@	9.8@ theta80
(2.4G+5G H)	-10	10.1	70	73% @5G		5.3 @ 5.5Ghz	25dB vs Ant3&Ant4	26dB	theta80	10.7 @ theta90
						4.8 @ 5.85Ghz	30dB vs Ant LTE	30dB	/90/100	10.5@ theta100
Ant2					3dBi <max 5ghz<="" @="" gain<5.5dbi="" td=""><td>5.5 @ 5.1Ghz</td><td>20dB vs Ant1</td><td>18dB</td><td>10dB@</td><td>9.3@ theta80</td></max>	5.5 @ 5.1Ghz	20dB vs Ant1	18dB	10dB@	9.3@ theta80
(2.4G+5G H)	-10	10.2	70	75% @5G		5.0 @ 5.5Ghz	25dB vs Ant3&Ant4	31dB	theta80	10.7 @ theta90
						5.5 @ 5.85Ghz	30dB vs Ant LTE	29dB	/90/100	10.9@ theta100

Frequency	Uncorrelated Gain	correlated Gain				
(Mhz)	(dBi)	(dBi)				
5100	4.7	7.4				
5500	4.6	7.6				
5850	3.4	6.4				

## Results summary at 6G

	S11	(dB)	Efficiency(%) Max Gain(dBi)		Isolation(dB)		Flatness(dB)			
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant3					3dBi <max 6ghz⊢<="" @="" gain<5.5dbi="" td=""><td>4.7 @ 5.9Ghz</td><td>25dB vs Ant1&amp;Ant2</td><td>28dB</td><td rowspan="2">∤ 10dB @ ⊢</td><td>14.4 @ theta80</td></max>	4.7 @ 5.9Ghz	25dB vs Ant1&Ant2	28dB	∤ 10dB @ ⊢	14.4 @ theta80
(GPS+6G V)	-10	14.8	70	79%		5.5 @ 6.5Ghz	20dB vs Ant4	32dB		17.9 @ theta90
						5.4 @ 7.125Ghz	20/30dB vs Ant LTE	20dB @ GPS 35dB @ 6G	/90/100	17.0 @ theta100
Ant4					3dBi <max 6ghz<="" @="" gain<5.5dbi="" td=""><td>4.2 @ 5.9Ghz</td><td>25dB vs Ant1&amp;Ant2</td><td>28dB</td><td>10dB@</td><td>12.9 @ theta80</td></max>	4.2 @ 5.9Ghz	25dB vs Ant1&Ant2	28dB	10dB@	12.9 @ theta80
(BT+6G V)	-10	9.6	70	73%	Subi-wax Gain-5.5ubi @ 0GHZ	5.4 @ 6.5Ghz	20dB vs Ant4	29dB	theta80	13.2 @ theta90
						5.5 @ 7.125Ghz	30dB vs Ant LTE	27dB @ BT 33dB @ 6G	/90/100	13.7 @ theta100

Frequency	Uncorrelated Gain	correlated Gain
(Mhz)	(dBi)	(dBi)
5900	3.1	6
6500	4.7	7.7
7125	4.3	7.3

## **Results summary at GNSS**

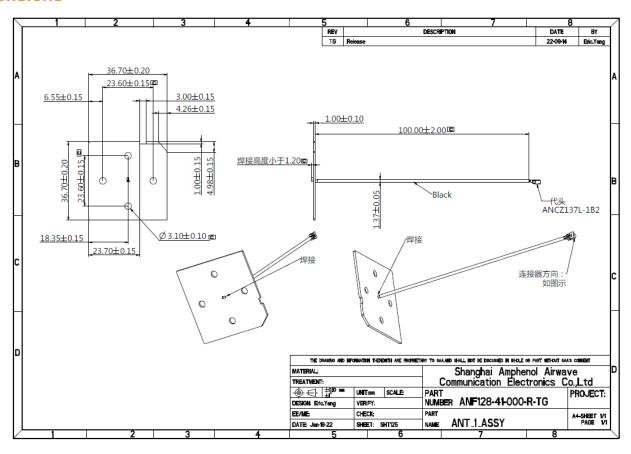
	S11(dB)		Efficie	ency(%)	Max Gain(dB	lsolation(dB)		Flatness(dB)		
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant3 (GPS+6G V)	-10	18	70	73%		2.7 @ 1.575Ghz	20dB vs other Ants	20dB	theta80	9.9 @ theta80 11.7 @ theta90 10.7 @ theta100

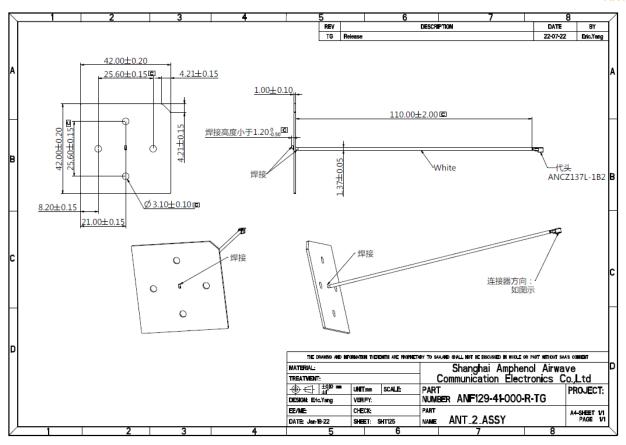
## **Results summary at BLE**

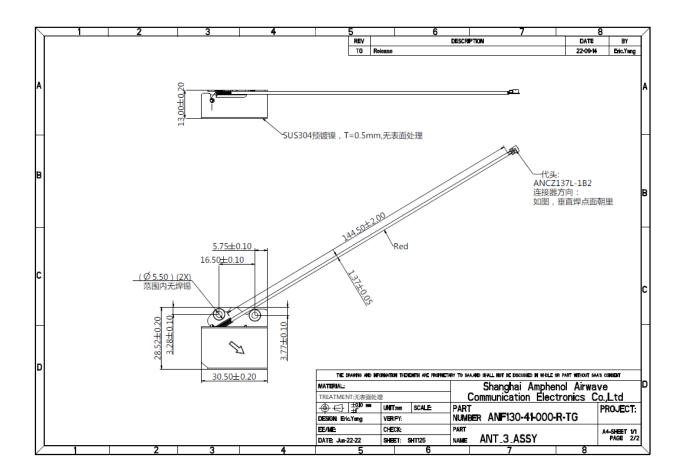
	S11(dB)		S11(dB) Efficiency(%)		Max Gain(dBi)		Isolation(dB)		Flatness(dB)	
	SPC	test result	SPC	test result (Average)	SPC	test result	SPC	test result	SPC	test result
Ant4					3dBi <max gain<5dbi<="" td=""><td>3.9 @ 2.4Ghz</td><td>25dB vs Ant1&amp;Ant2</td><td>28dB</td><td>404D @</td><td>11.9 @ theta80</td></max>	3.9 @ 2.4Ghz	25dB vs Ant1&Ant2	28dB	404D @	11.9 @ theta80
(BT+6G V)	-10	15.2	70	74%		Subismax Gainsoubi	5.0 @ 2.45Ghz	20dB vs Ant3	29dB	10dB @ theta80
						5.1 @ 2.5Ghz	30dB vs Ant LTE	27dB	100/400	10.2 @ theta100

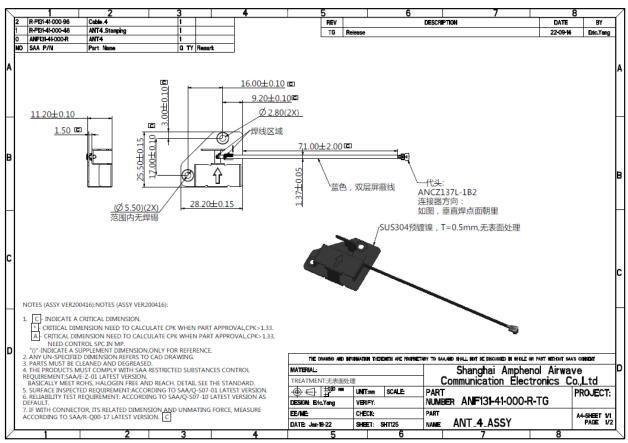
Correlated gain values generated by first generating the correlated gains of the co-pol pairs [10log[(10G1/20 + 10G2/20 + ... + 10GN/20)2 /NANT] using the spatial gain data. The results were then summed [10log[(10G1/10 + 10G2/10 + ... + 10GN/10)/NANT].

#### **Dimensions**









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