



ANTENNA DATASHEET

AOT PN: ANT-P2458-T24

REVISION HISTORY

REV.	Description	Date
1.0	First release	July.08/2024

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↳ AOT Wireless Technology Co., Limited ↵



+ ANT-P2458-T24 Antenna

Based on AOT's patented technology, the Model ANT-P2458-T24 Antenna features provides a high performance, external antenna solution. The antenna supports IEEE 802.11a/b/g/n/ac/ax wireless standards and is intended for access points. The solution is suitable for low-cost, high-performance antenna applications.

+ Features Overview

- Covering 2400-2490MHz/5150-5850MHz frequency
- Off-board, Cable-fed,
- Low Cost, High performance
- RoHS compliant.





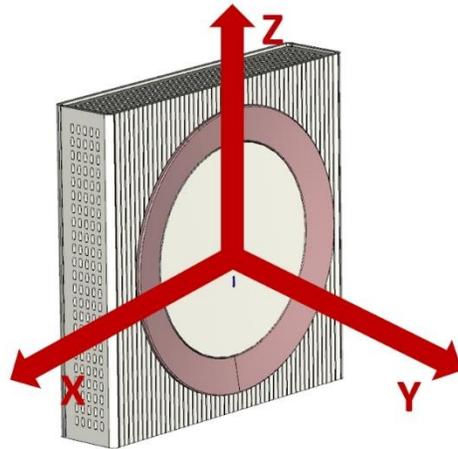
Specifications and Interface

Wireless Standard	IEEE 802.11 a/b/g/n/ac/ax
Frequency Bands	2400 -2490MHz/5150-5850MHz
Peak Realized Gain	4.8dBi@2.4GHz/6.3dBi@5GHz
Realized Efficiency	>72%@2.4GHz/>60%@5GHz
VSWR	<1.9@2.4GHz/<1.9@5GHz
Polarization	Linear Polarization
Radiation Pattern	Omni-directional
Feed Impedance	50Ω
Power Handling	30dBm
Antenna Structure	PCB Antenna
Feeding Description	Cable Feeding
Antenna Dimensions	125.6 x 12.0 x 0.8(mm)
Weight	4.6 g
Temperature Range	Operating temperature: -40° C to +75° C (-40° F to +167° F) Storage temperature: -40° C to +85° C (-40° F to +185° F)

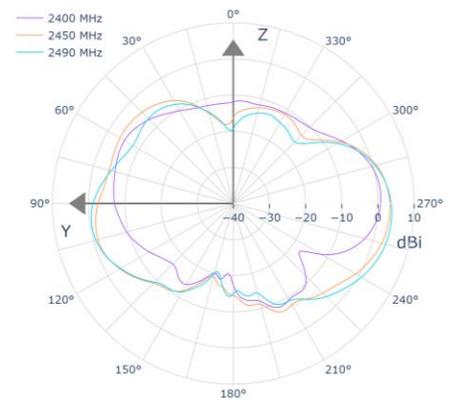
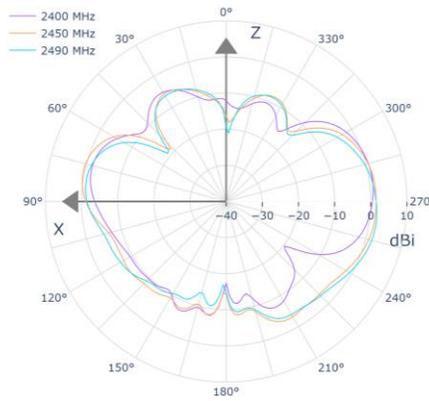
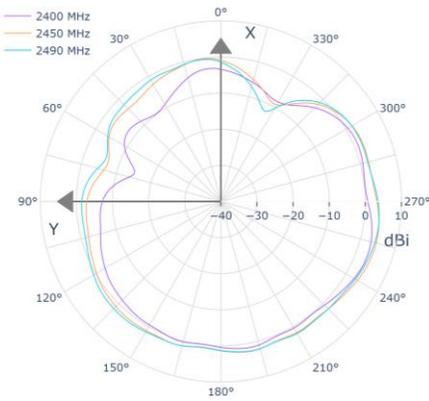


+ Radiation Patterns

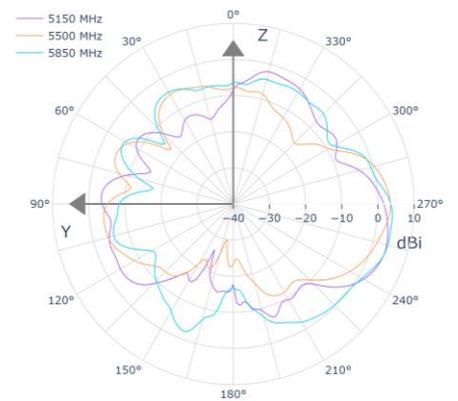
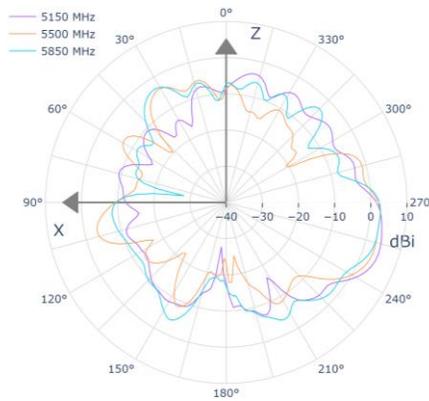
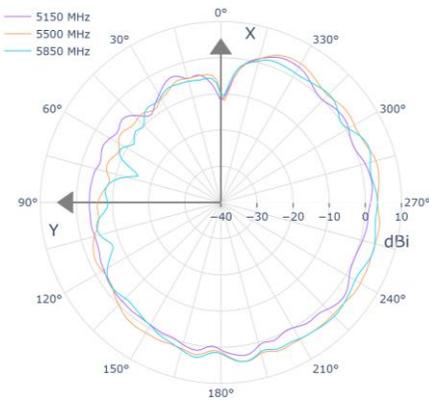
Radiation patterns were taken with the antenna in testing Chamber



Antenna integrated in customer's housing for radiation pattern



Model ANT-P2458-T24 Antenna Radiation Patterns at 2G



Model ANT-P2458-T24 Antenna Radiation Patterns at 5G



+ Realized Efficiency & Peak Realized Gain

Frequency	
(MHz)	(%)
2400	73
2410	73
2420	72
2430	72
2440	73
2450	72
2460	72
2470	73
2480	74
2490	74
5150	67
5200	65
5300	63
5400	62
5500	63
5600	60
5700	62
5800	64
5850	62

Frequency	
(MHz)	(dBi)
2400	4.2
2410	4.2
2420	4.1
2430	4.0
2440	4.0
2450	4.1
2460	4.3
2470	4.5
2480	4.7
2490	4.8
5150	6.3
5200	6.1
5300	6.1
5400	5.2
5500	5.1
5600	5.0
5700	5.2
5800	5.4
5850	5.1