



ANTENNA DATASHEET

AOT PN: ANT-M2458-T03

REVISION HISTORY

REV.	Description	Date
1.0	First release	Dec.15/2023
2.0	1. Modified the cable OD from 1.13mm to be 1.37mm; 2. Modified the cable length from 175mm to be 172mm	Apr.12/2024
3.0	Modified the cable length from 172mm to be 158mm	MAY28/2024

Want to see the latest information? Please contact us via sales@aot-corp.com

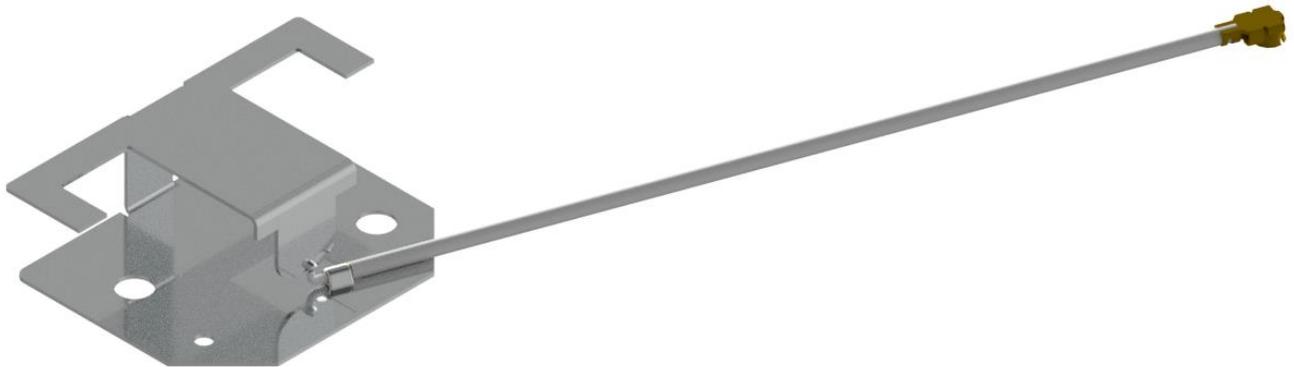


ANT-M2458-T03 Antenna

Based on AOT's patented technology, the Model ANT-M2458-T03 Antenna features provides a high performance, off-board and cable feeding Internal antenna solution. It was designed for supporting 2400-2500MHz/5150-5850MHz bands applications including WIFI.

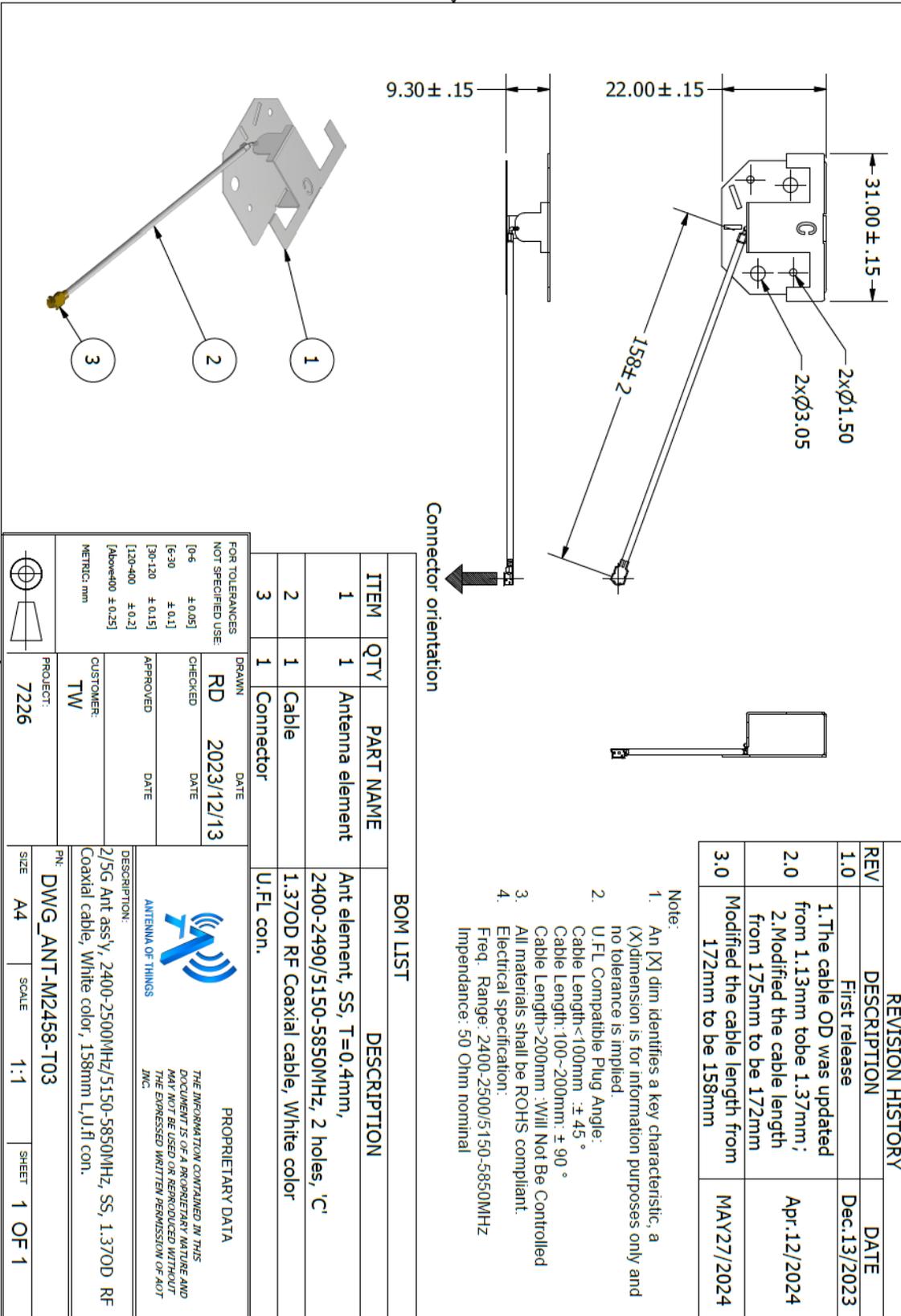
Features Overview

- Covering 2400-2500MHz/5150-5850MHz frequency
- Off-board, low profile design
- Low Cost, High performance
- RoHS compliant.





Assembly Drawing





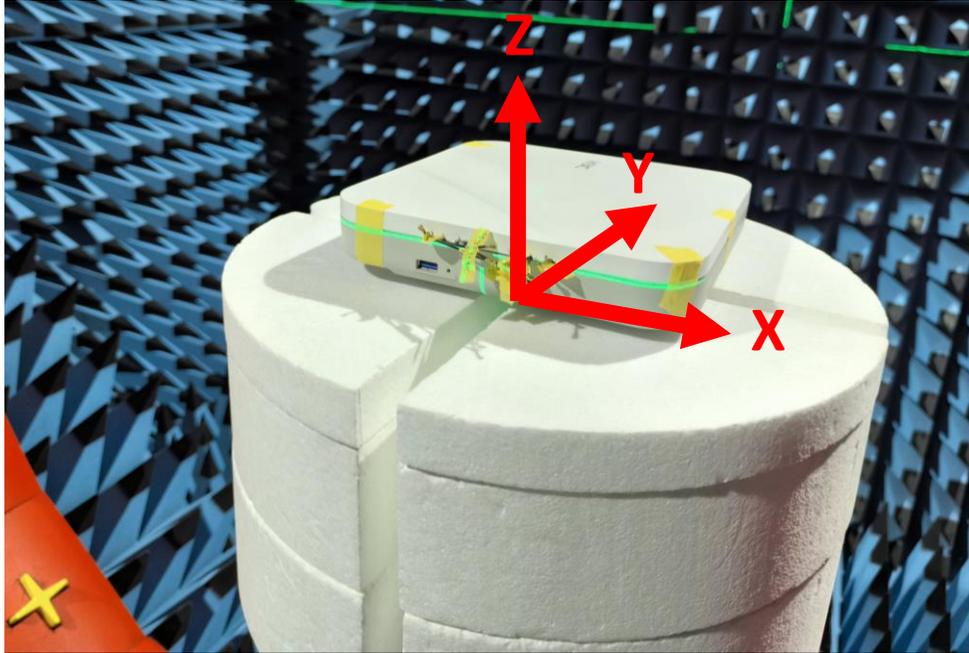
Specifications and Interface

Wireless Standard	IEEE 802.11a/b/g /n/ac/ax/6e/7
Frequency Bands	2400 -2500MHz/5150-5850MHz
Peak Realized Gain	>3.7dBi@2.4GHz / >4.9dBi@5GHz
Realized Efficiency	>67%@2.4GHz / >57%@5GHz
Return Loss	>10dB
Polarization	Linear Polarization
Radiation Pattern	Omni-directional
Feed Impedance	50Ω
Power Handling	30dBm
Antenna Structure	Metal Antenna
Feeding Description	Cable Feeding
Antenna Dimensions	31x22x9.3(mm)
Weight	3.5g
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)

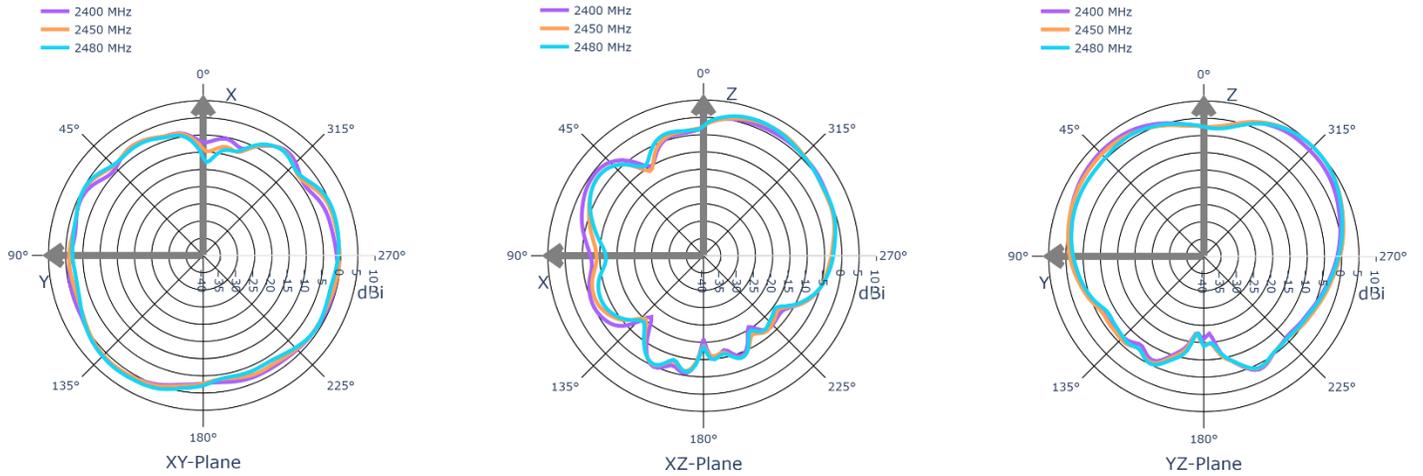


+ Radiation Patterns

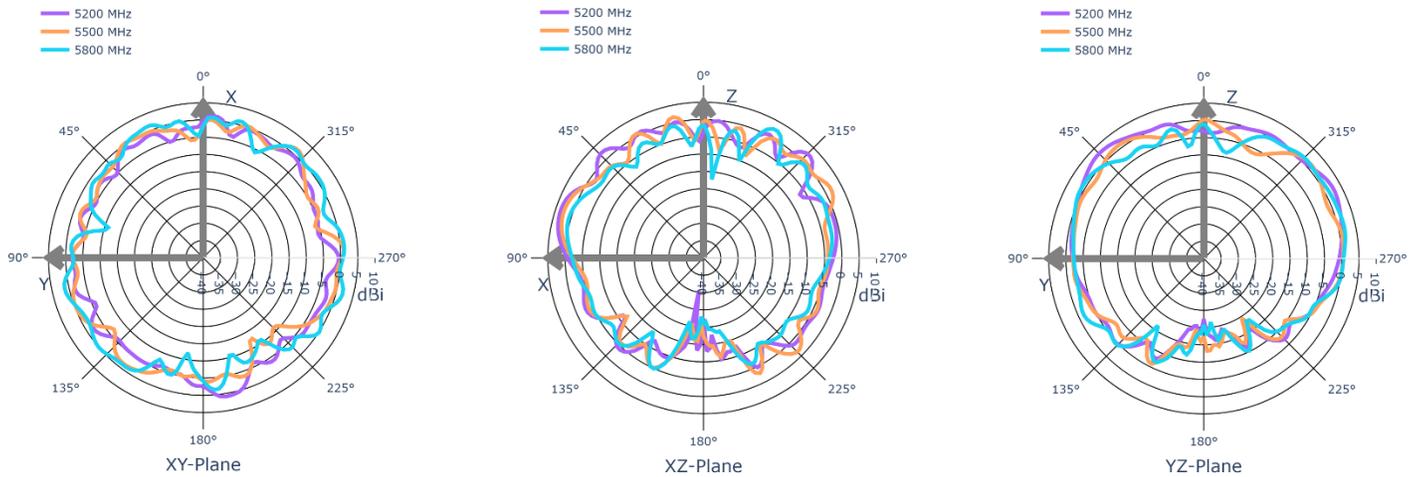
Radiation patterns were taken with the antenna in testing Chamber



Antenna integrated in customer's housing for radiation pattern



Model ANT-M2458-T03 Measured Radiation Patterns at 2.4GHz



Model ANT-M2458-T03 Measured Radiation Patterns at 5GHz