



ANTENNA DATASHEET

AOT PN: ANT-M5172-T02

REVISION HISTORY

REV.	Description	Date
1.0	First release	Dec.15/2023
2.0	Modified the cable length	Mar.04/2024



ANT-M5172-T02 Antenna

Based on AOT's patented technology, the Model ANT-M5172-T02 Antenna features provides a high performance, off-board and cable feeding Internal antenna solution. It was designed for supporting 5150-7125MHz bands applications including WIFI.

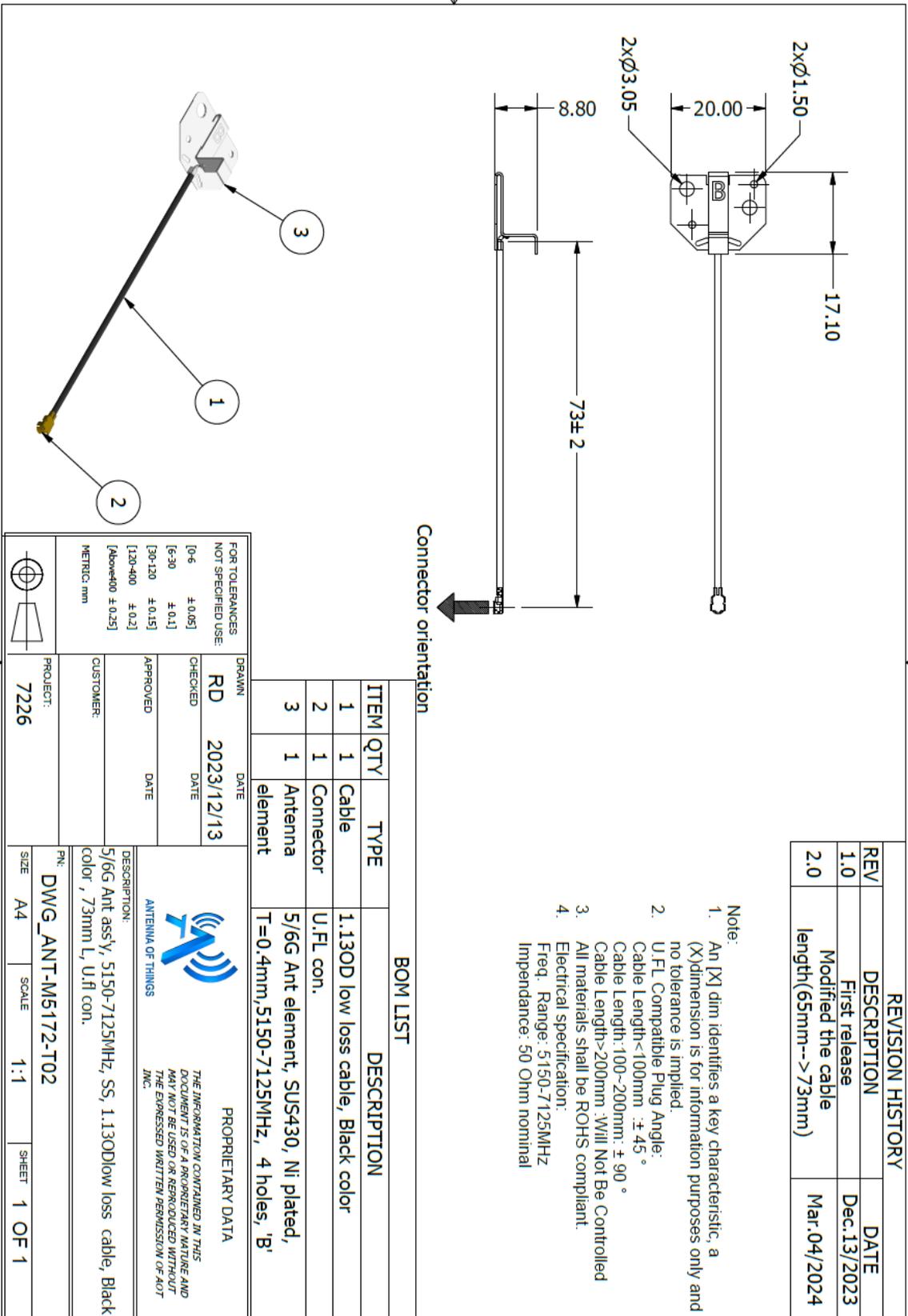
Features Overview

- Covering 5150-7125MHz frequency
- Off-board, low profile design
- Low Cost, High performance
- RoHS compliant.





Assembly Drawing





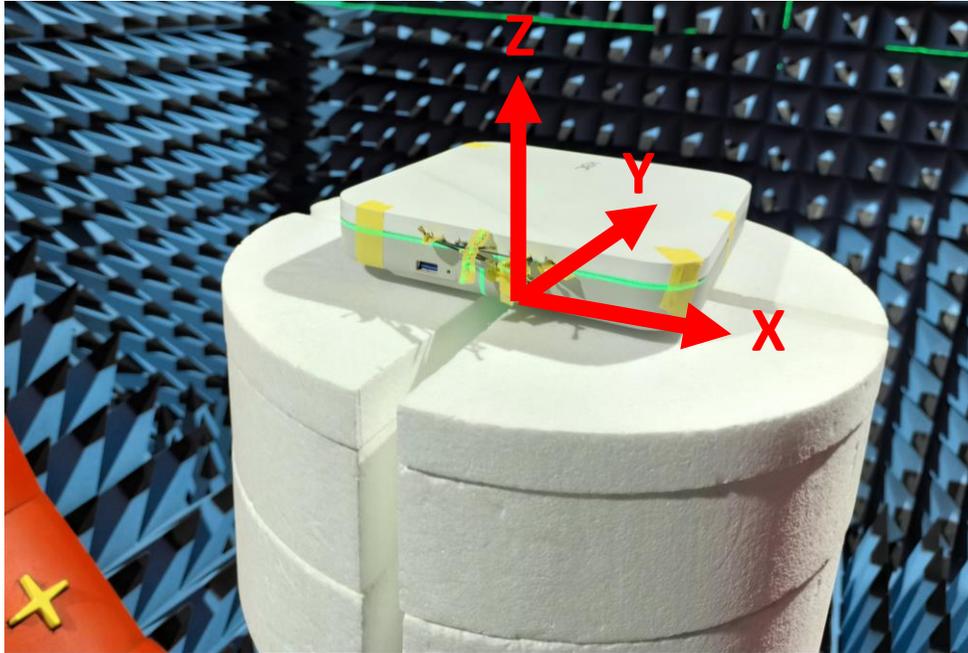
Specifications and Interface

Wireless Standard	IEEE 802.11a/n/ac/ax/6e/7
Frequency Bands	5150-7125MHz
Peak Realized Gain	>5.3dBi@5GHz / >6.3dBi@6GHz
Realized Efficiency	>68%@5GHz / >63%@6GHz
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	20x17.1x8.8(mm)
Weight	1.4g
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)

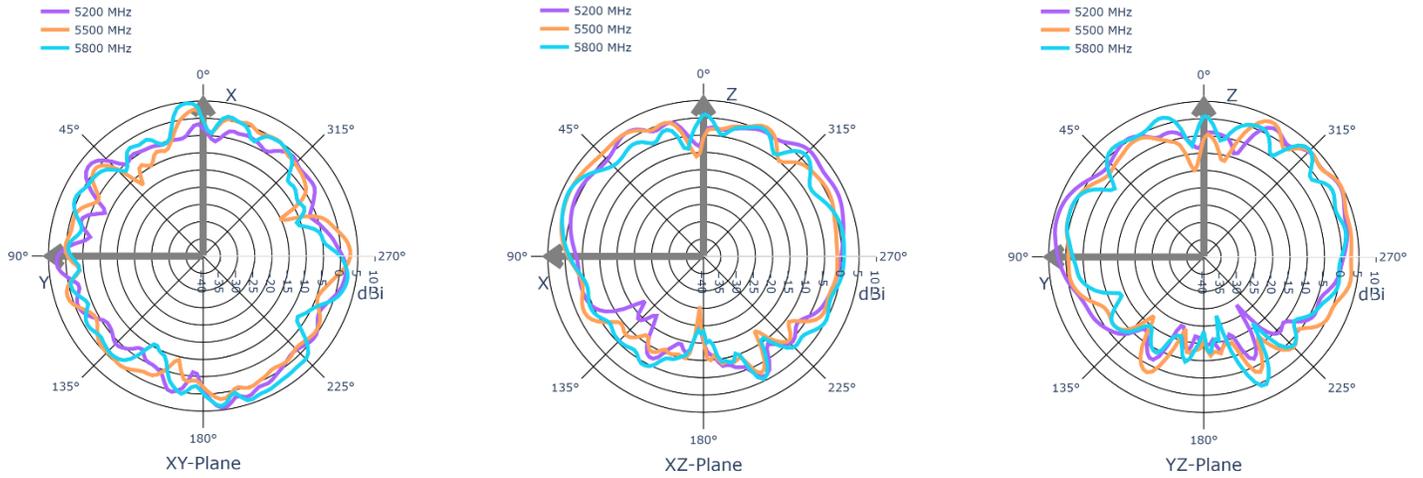


+ Radiation Patterns

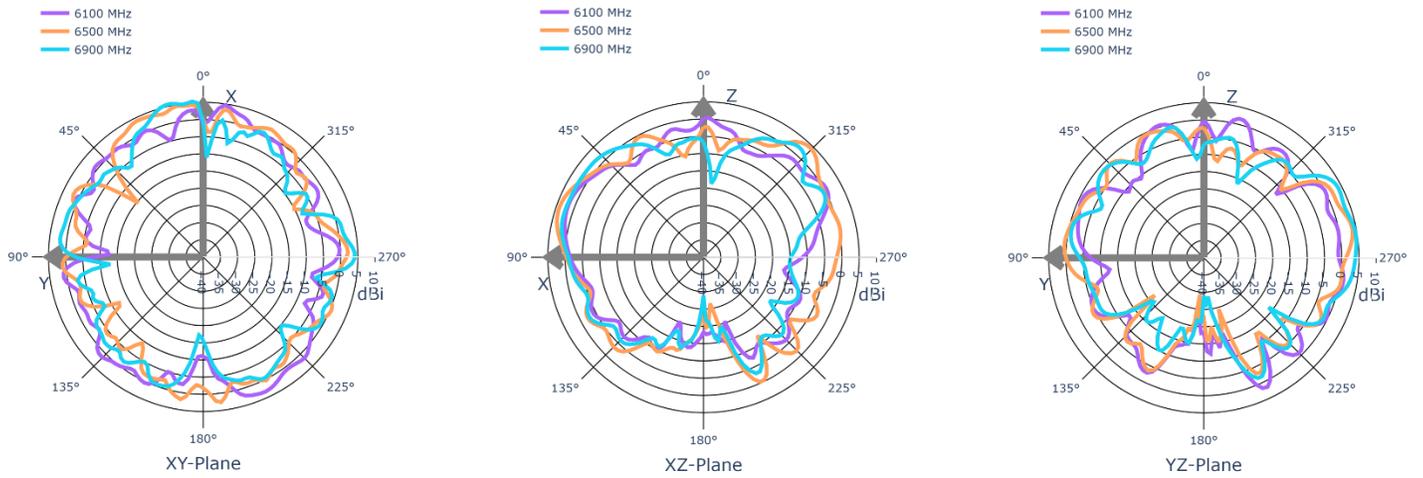
Radiation patterns were taken with the antenna in testing Chamber



Antenna integrated in customer's housing for radiation pattern



Model ANT-M5172-T02 Measured Radiation Patterns at 5GHz



Model ANT-M5172-T02 Measured Radiation Patterns at 6GHz