



# ANTENNA DATASHEET

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AOT PN: ANT-GPSL1-N03

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## REVISION HISTORY

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REV.	Description	Date
<b>1.0</b>	First release	July.04/2024

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Want to see the latest information? Please contact us via [sales@aot-corp.com](mailto:sales@aot-corp.com)

└ AOT Wireless Technology Co., Limited ┘

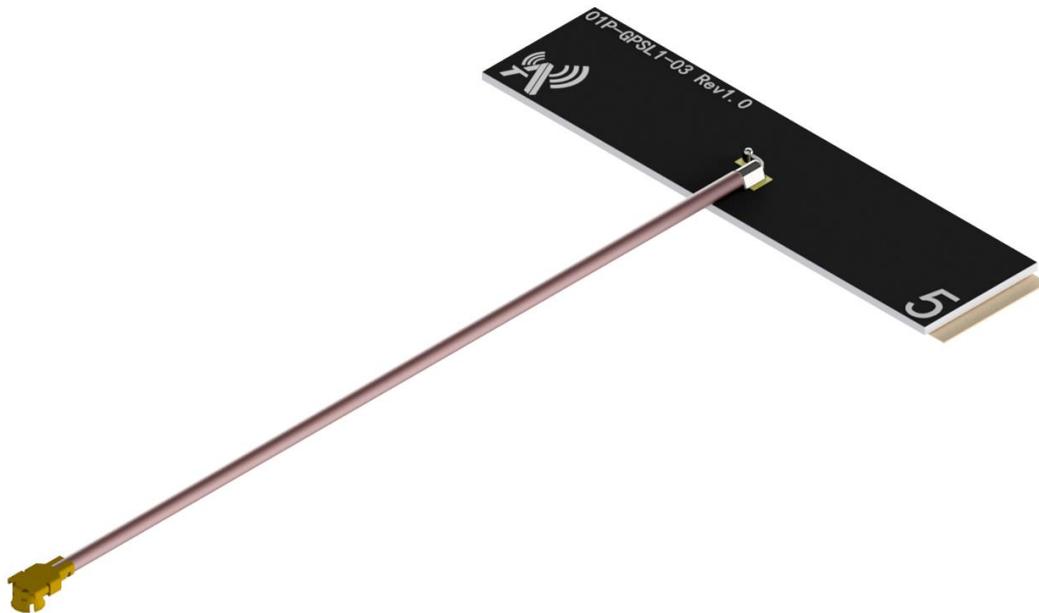


## ANT-GPSL1-N03 Antenna

Based on AOT's patented technology, the Model ANT-GPSL1-N03 Antenna features provides a high performance, external antenna solution. The antenna supports GPS/LE wireless standards and is intended for access points. The solution is suitable for low-cost, high-performance antenna applications.

## Features Overview

- Covering  $1575.42 \pm 12$  MHz frequency
- Off-board, Cable-fed,
- Low Cost, High performance
- RoHS compliant.







## Specifications and Interface

Wireless Standard	GPS/LE
Frequency Bands	1575.42±12MHz
Peak Realized Gain	4.0dBi@1575MHz
Realized Efficiency	>63%@1575MHz
VSWR	<1.85@1575MHz
Polarization	Linear Polarization
Radiation Pattern	Omni-directional
Feed Impedance	50Ω
Power Handling	30dBm
Antenna Structure	PCB Antenna
Feeding Description	Cable Feeding
Antenna Dimensions	47.0 x 12.0 x 0.6(mm)
Weight	1.4 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)

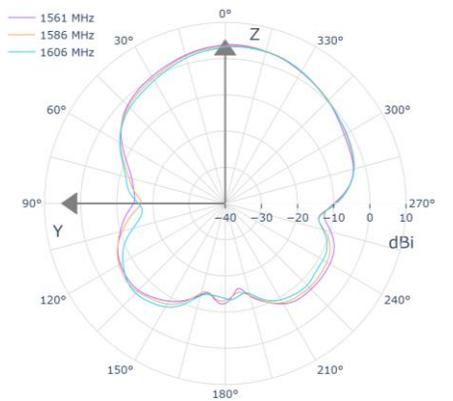
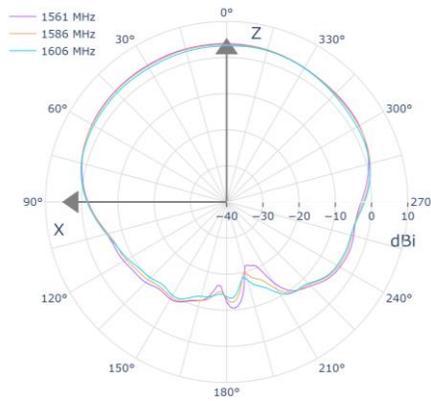
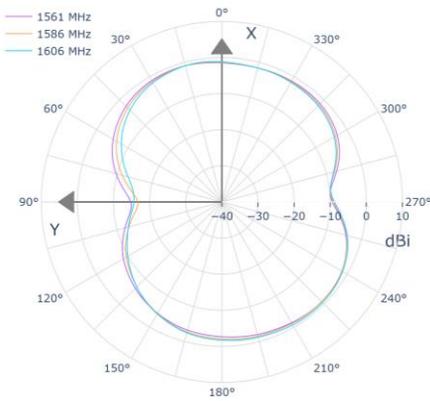


## Radiation Patterns

Radiation patterns were taken with the antenna in testing Chamber



Antenna integrated in customer's housing for radiation pattern



Model ANT-GPSL1-N03 Antenna Radiation Patterns at GNSS



## Realized Efficiency & Peak Realized Gain

Frequency (MHz)	(%)
1561	68
1566	68
1571	67
1576	67
1581	67
1586	67
1591	65
1596	64
1601	64
1606	63

Frequency (MHz)	(dBi)
1561	4.0
1566	4.0
1571	4.0
1576	3.9
1581	3.9
1586	3.9
1591	3.8
1596	3.8
1601	3.8
1606	3.8