ANT2458Q5P2 Antenna

N-Tron Networking Series

▶▶▶ Compact, Dual-Band, 1/2 Wave Antenna

The *ANT245805P2* is a compact, dual-band, 1/2 wave antenna covering the 2.45 and 5.8GHz bands. The antenna features a tilt and swivel joint which allows it to be oriented at straight or right angles to the product or folded for storage and shipment. It attaches to the 702M12-W via an RP-TNC connector

702M12-W APPLICATIONS

- Wireless LAN applications
- Client antennas
- 802.11b/g/n applications

SPECIFICATIONS

Frequencies:	Band 1: 2.4Ghz Band 2: 5.8GHz
Gain @ 2.4GHz:	2 dBi
Gain @ 5.8GHz:	5 dBi
Polarization:	Vertical
VSWR:	< 2
Impedance:	50 ohms
Maximum Input Power:	5 Watts
Operating Temperature:	-40° to 70° C
Weight:	150g
Dimensions (Length x Diameter):	6" x 0.43" 152mm x 11mm

Range Estimates - 2.4GHz

Throughput	26Mbps	100Mbps
Distance (Miles)	1.35	0.12
Distance (kilometers)	2.18	0.19
Tx Power	22dBm	15dBm
Receive Sensitivity	-91dBm	-77dBm
Number of Spacial Streams	2	2

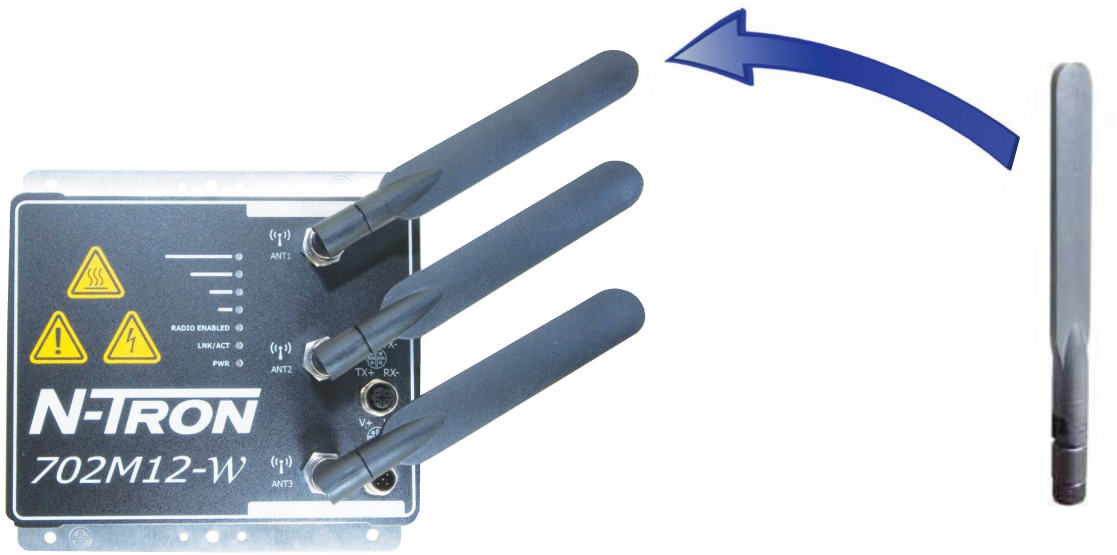
Range Estimates - 5.8GHz

Throughput	26Mbps	100Mbps
Distance (Miles)	1.02	0.09
Distance (kilometers)	1.64	0.15
Tx Power	22dBm	15dBm
Receive Sensitivity	90dBm	-76dBm
Number of Spacial Streams	2	2

*Given the following parameters:

- Free Space loss / 2-ray ground reflection models
- Antenna is mounted directly onto an *N-TRON 702-W* Ethernet Radio mounted twenty-five (25) feet above ground level.
- Clear line of sight between radios with no obstructions of the first Fresnel Zone
- 20MHz wide signal
- Center frequency = 2.452GHz or 5.805GHz
- 10dB loss assumed for weather conditions

Range estimates are theoretical. Actual results may vary based on installation conditions. A site survey should be performed as part of the planning process to determine the presence of RF interference and identify optimum installation locations for access points and antennas.



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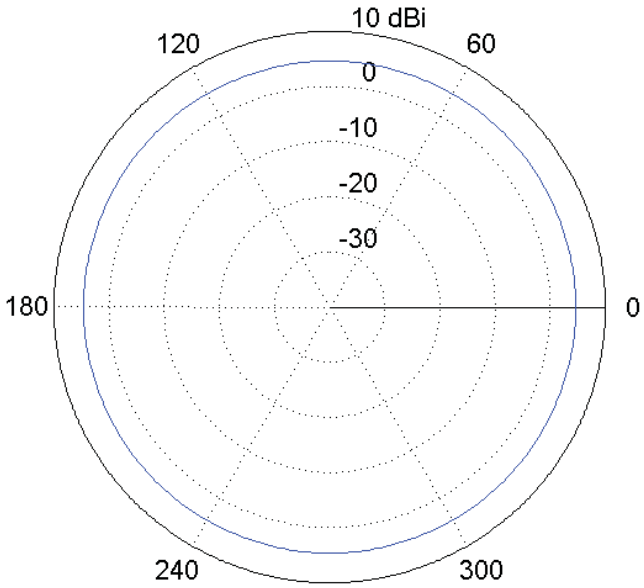
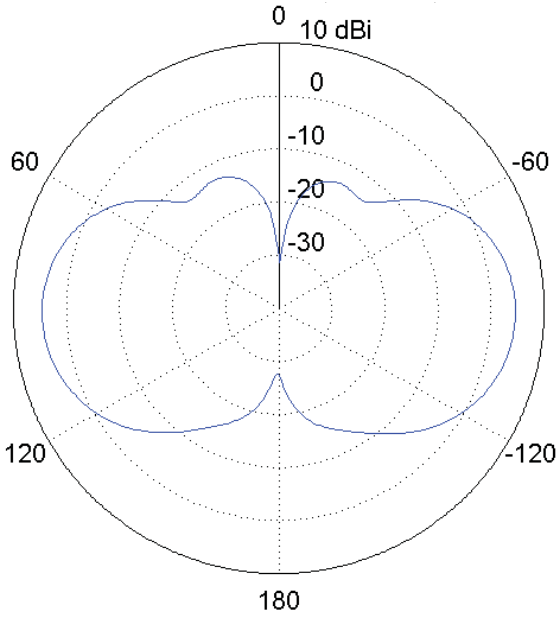
Azimuth Pattern



Elevation Pattern



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