

ANT-PD58-32 Antenna

N-Tron Networking Series



▶▶▶ Parabolic Dish Antenna System

The *ANT-OD58-32* parabolic dish antenna system is constructed of an aluminum alloy dish with a powder coat paint finish for excellent mechanical, electrical and environmental performance. The parabolic reflector is made with a special one-step molding technology which achieves excellent consistency and long term stability. It comes complete with universal galvanized steel, powder coat paint mounting system for pole mount applications. Because of its superb electrical performance and mechanical stability, the parabolic dish antenna can be used in a wide variety of high performance 5GHz wireless applications.



702-W / 702M12-W APPLICATIONS

- Wireless LAN applications
- 802.11a wireless systems
- Base Station antenna

SPECIFICATIONS

Frequency Range:	5470-5850 MHz
Gain:	32 dBi
Input Return Loss (S11):	-14dBi
VSWR:	1.5:1 typical
3dB Beam Angle:	4 deg.
Cross Pole:	-34dB
Front to Back:	38dB
Side Lobe:	-30dB
Impedance:	50 ohms
Input Power:	100 Watts
Operating Temperature:	-40° to 70° C
Pole Size (diameter):	1 to 3 inches
Weight:	22 lbs. (10kg)
Dimensions (diameter):	35.4" (900mm)
Rated Wind Velocity:	125mph (56 M/sec.)
Wind Loading:	
100 mph:	256 lbs.
125 mph:	400 lbs.
100 mph w,1/2 radial ice	258 lbs.

Range Estimates*

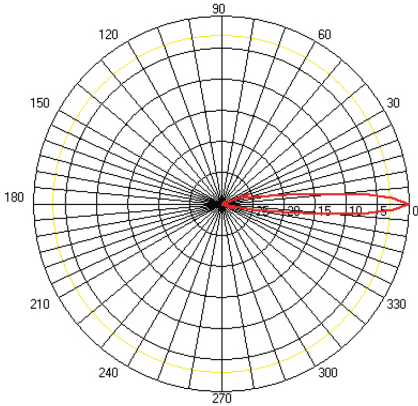
Throughput	26Mbps	100Mbps
Distance (Miles)	36.74	14.63
Distance (kilometers)	59.12	23.53
TX Power	20dBm	15dBm
Receive Sensitivity	-87dBm	-76dBm
Number of Spatial Streams	1	2

*Given the following parameters:

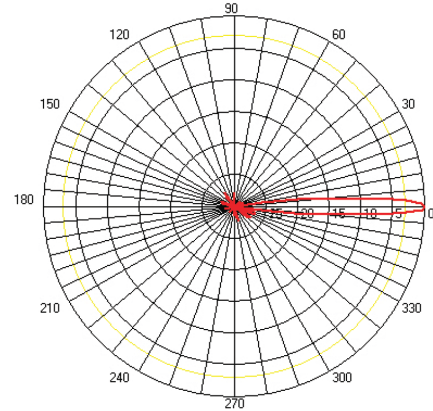
- Free Space loss / 2-ray ground reflection models
- Antenna is used with an *N-TRON 702-W* or *702M12-W* Ethernet Radio mounted at base level.
- Antenna height: 25ft (7.6 meters) above ground
- Clear line of sight between antennas with no obstructions of the first Fresnel Zone
- 25 feet of *N-TRON ANT-CAB-400* series antenna cable for antenna to Radio connection
- 20MHz wide signal
- Center frequency = 5.80GHz
- 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.

ANTENNA PATTERN



EPlane - Vertical / Elevation



HPlane - Horizontal / Azimuth