

ANT-PAD58-20 Antenna

N-Tron Networking Series



▶▶▶ Flat Panel Directional Antenna

The *ANT-PAD58-20*, a 5.8 GHz flat panel directional antenna, offers high gain in a thin low profile package. The antenna is constructed of grey UV-stabilized ABS plastic with an aluminum backplate. The antenna can be used in horizontal or vertical polarization. The antenna is supplied with a +/-65 degree tilt and +15 degree swivel mast and surface mounting kit. The ANT-PAD58-20 antenna comes with an integral N female connector standard.

702-W / 702M12-W APPLICATIONS

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

SPECIFICATIONS

Frequency Range:	5150-5875 MHz
Gain:	20 dBi
Horizontal Beam Width:	14 degrees
Vertical Beam Width:	11 degrees
Impedance:	50 Ohm
VSWR:	<1.5:1 avg.
Lightning Protection:	DC Short
Input Power:	6 Watts
Cross Polarization:	>30 dBi
Output Connector:	"N" type Female
Pole Size (diameter):	3/4" to 2" (19 mm to 51 mm)
Vertical Tilt:	+/-65 degrees
Weight:	.1.3 lbs. (0.59 Kg)
Dimensions:	10.4" x 10.4" x 0.49" (264 x 264 x 12 mm)
Radome Material:	UV Stabilized ABS plastic, gray
Polarization:	Horizontal or Vertical
Operating Temperature:	-49° to 65° C
Wind Survival:	>125MPH (201KPH)



Range Estimates:

Throughput	26Mbps	100Mbps
Distance (Miles)	9.21	1.53
Distance (Kilometers)	14.82	2.47
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 = 5.80 GHz
- 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 antenna

N-Tron ANT-PAD58-20 Ordering Information

ANT-PAD58-20	Flat Panel Directional Antenna
ANT-CAB-400-N-RPSMA-X	Low Loss Coaxial Antenna cable; 1 RP-SMA and 1 N-Male connector for use with 702-W
ANT-CAB-400-N-RPTNC-X	Low Loss Coaxial Antenna cable 1 RP-TNC and 1 N-Male connector for use with 702M12-W
ANT-CAB-195-RPSMA-RPSMA-X	702-W Antenna Bulkhead extension cable set; Each cable includes (1) Straight RP-SMA Bulkhead Jack and (1) 90° RP-SMA plug (package of 3). For use when mounting a 702-W in an enclosure.
ANT-LA6-NFF	2-6GHz quarter wave lightning arrester (N-Female to N-Female, less than 0.2dB insertion loss, IP65, -40 to 85°C)
ANT-CAB-400-N-X	Low loss CA-400 coaxial cable with (2) N-Male connectors (for use with the ANT-LA6-NFF lightning arrester)