

# Winncom Technologies Corp.

## 900 MHz Directional Antennas

**900 MHz Directional Antennas Radiate and Receive RF signals Optimized in a specific direction.**

**P/N: WRP900-100**

**10 dBi Panel Directional Antenna with Adjustable mount, 870-960 MHz Frequency Range**

The WRP900-100 is a single linear polarization directional panel antenna that can be mounted in either a vertical or horizontal polarization configuration. The antenna meets or exceeds IP67 and NEMA4 weatherproofing requirements. The antenna consists of a patented low cost, high performance circuit design enclosed in a UV stabilized ABS plastic radome with aluminum backplane for superior weatherability. The antenna circuit is DC grounded to aid in lighting protection. A pole and wall mounting kit is also included with each antenna.



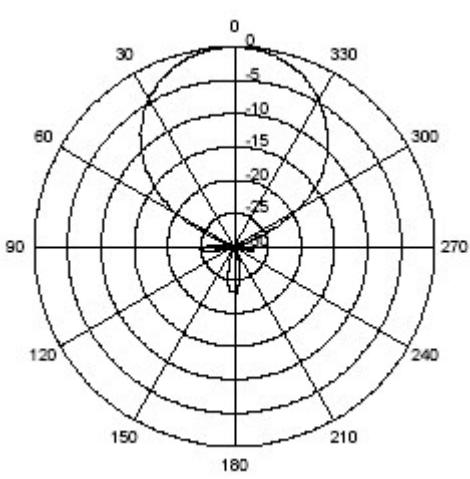
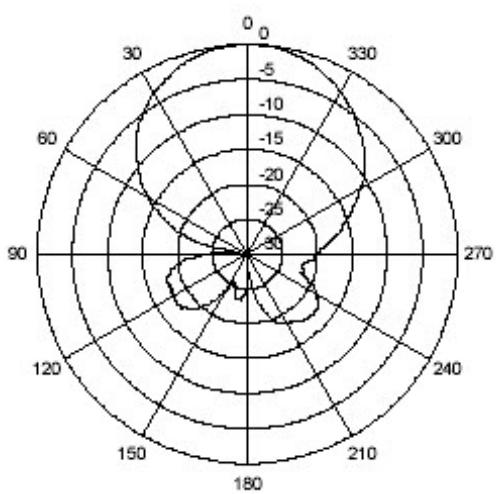
### Specifications:

<b>Electrical</b>	
Frequency Range	870-960 MHz
Gain	10.0 dBi
Polarization	Single Linear (Horizontal or Vertical) 870-880MHz: $\leq 1.8:1$
VSWR	880-960MHz: $\leq 1.5:1$
Front-to-Back Ratio	>25 dB
Cross Polarization	>15 dB
E-Plane Beamwidth	57 deg
H-Plane Beamwidth	50 deg
Power Rating	30 Watts
Connector Type	N-Female, Standard
Impedance	50 ohms
Lighting Protection	DC Ground
<b>Mechanical and Environmental</b>	
Length	13.3 in (338 mm)
Width	13.3 in (338 mm)
Depth	1.7 in (43.2 mm)
Weight, including bracket	3.0 lb (1.36 kg)
Backplane	Aluminum
Radome	Gray UV Stabilized ABS Plastic
Wind Survivability	125 mph (201 kph)
Wind Load	1.23 ft <sup>2</sup> (0.12 m <sup>2</sup> )
Operating Temperature Range	-49°F to +122°F (-45°C to +50°C)
Pole Mount Diameter Range	0.75 in to 1.75 in (19 mm to 44 mm)

### Radiation Patterns:

**H-Plane**

**E-Plane**



Winncom Technologies Corp.  
30700 Carter St. Suite A  
Solon, OH 44139  
Toll Free: (888)-WINNCOM  
Phone: +1 (440) 498-9510; Fax: +1 (440) 498-9511  
[sales@winncom.com](mailto:sales@winncom.com) [support@winncom.com](mailto:support@winncom.com)