

## 900 MHz Professional 8 dBi High Performance Omnidirectional Antenna for ISM, GSM and Wireless LAN Systems

MODEL: ANDES-OM-900-8

### Applications and Features

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#### Applications

- \* 900MHz ISM Band
- \* Wireless LAN systems
- \* Point to multipoint applications
- \* Non Line of Sight (NLOS)
- \* GSM
- \* SCADA
- \* Wireless Video Links
- \* 900MHz Cellular

#### Features

- \* Superior performance
- \* Rugged industrial grade design
- \* Lightweight fiberglass radome
- \* All weather operation
- \* Integral N-Female connector
- \* Includes heavy-duty steel mast mounting brackets
- \* RoHS Compliant



### Description

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The WWP-OM-900-8 is a high performance omnidirectional antenna designed for the 900 MHz ISM band. It is ideally suited for multipoint, Non Line of Sight (NLOS) and mobile applications where high gain and wide coverage is desired. Typical applications include 900MHz Wireless LAN, SCADA, Wireless Video Links and 900MHz Cellular band applications.

This antenna features an integral N-Female type connector that mounts through the wall of an equipment enclosure. Included with the WWP-OM-900-8 is a dual u-bolt mast mounting kit. Consisting of a heavy-duty steel bracket and a pair of U-bolts, this kit allows installation on masts up to 2.0" in diameter.

This omni antenna's construction features a rugged 1.58" diameter white fiberglass radome for durability, aesthetics and long service life. It is designed for all weather operation.

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## Specifications

### Electrical Specifications

<b>Frequency:</b>	900 - 928 MHz
<b>Gain:</b>	8 dBi
<b>Vertical Beam Width :</b>	16 degrees
<b>Impedance:</b>	50 Ohm
<b>Max. Input Power:</b>	100 Watts
<b>VSWR:</b>	< 1.5:1 avg.

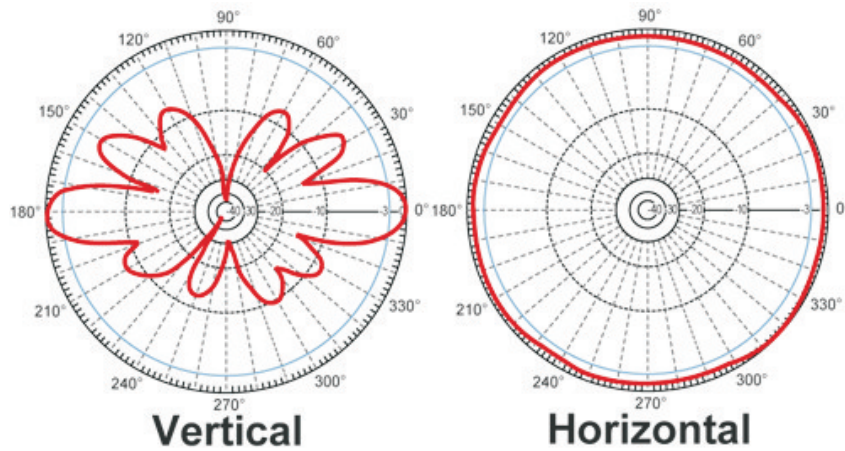
### Mechanical Specifications

<b>Connector:</b>	Integral N-Female
<b>Weight:</b>	2.8 lbs. (1.3 Kg)
<b>Length:</b>	47.5 in. (1.2 m)
<b>Radome Diameter :</b>	1.58 in. (40.1 mm)
<b>Base Diameter :</b>	1.71 in. (43.4 mm)
<b>Radome Material:</b>	White Fiberglass
<b>Mounting:</b>	1¼" to 2" dia. mast max. (31.7mm to 50.8mm dia.)
<b>Polarization:</b>	Vertical
<b>Operating Temperature:</b>	-40° C to to 85° C (-40° F to 185° F)
<b>RoHS Compliant:</b>	Yes

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### RF Antenna Gain Patterns



### Antenna Mounts



**Heavy Duty Stationary Mounting Kit** for mounting to 1-1/4" to 2" dia. masts. Includes two sets of U-Bolts, nuts and mast clamps.



## OUTDOOR INSTALLATION WARNING

### IMPORTANT SAFETY PRECAUTIONS:

**LIVES MAY BE AT RISK!** Carefully observe these instructions and any special instructions that are included with the equipment you are installing.

**IMPORTANT:** Look over the site before beginning any installation, and anticipate possible hazards, especially these:

**CONTACTING POWER LINES CAN BE LETHAL.** Make sure no power lines are anywhere where possible contact can be made. Antennas, masts, towers, guy wires or cables may lean or fall and contact these lines. People may be injured or killed if they are touching or holding any part of equipment when it contacts electric lines. Make sure there is NO possibility that equipment or personnel can come in contact directly or indirectly with power lines.

Assume all overhead lines are power lines.

The horizontal distance from a tower, mast or antenna to the nearest power line should be at least twice the total length of the mast/antenna combination. This will ensure that the mast will not contact power if it falls either during installation or later.



### TO AVOID FALLING, USE SAFE PROCEDURES WHEN WORKING AT HEIGHTS ABOVE GROUND.

- Select equipment locations that will allow safe, simple equipment installation.
- Don't work alone. A friend or co-worker can save your life if an accident happens.
- Use approved non-conducting ladders and other safety equipment. Make sure all equipment is in good repair.
- If a tower or mast begins falling, don't attempt to catch it. Stand back and let it fall.
- If anything such as a wire or mast does come in contact with a power line, **DON'T TOUCH IT OR ATTEMPT TO MOVE IT.** Instead, save your life by calling the power company.
- Don't attempt to erect antennas or towers on windy days.

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**MAKE SURE ALL TOWERS AND MASTS ARE SECURELY GROUNDED, AND ELECTRICAL CABLES CONNECTED TO ANTENNAS HAVE LIGHTNING ARRESTORS.** This will help prevent fire damage or human injury in case of lightning, static build-up, or short circuit within equipment connected to the antenna.

- The base of the antenna mast or tower must be connected directly to the building protective ground or to one or more approved grounding rods, using 1 OAWG ground wire and corrosion-resistant connectors.
- Refer to the National Electrical Code for grounding details.
- Lightning arrestors for antenna feed coaxial cables are available from HyperLink Technologies, Inc.

**IF A PERSON COMES IN CONTACT WITH ELECTRICAL POWER, AND CANNOT MOVE:**

- **DON'T TOUCH THAT PERSON, OR YOU MAY BE ELECTROCUTED.**
- Use a non-conductive dry board, stick or rope to push or drag them so they no longer are in contact with electrical power.
- Once they are no longer contacting electrical power, administer CPR if you are certified, and make sure that emergency medical aid has been requested.

### Mounting diagram

