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## RooTenna® 2 Panel Antenna 2300 to 2700 MHz Operation

The RooTenna® 2 panel antenna offered by Laird Technologies was developed to allow integration of the customer's radio equipment inside the weatherproof compartment. The expanded radio compartment is big enough to house transceivers, amplifiers, and other electronic equipment. Two sizes are available - the regular RooTenna® and a lower profile RooTenna®.

The antenna design utilizes a precision stamped metal element over a solid 8.5" square backplane for more consistent performance over temperature and humidity conditions. The housing is UV stabilized ABS plastic. The backplate is alodine coated aluminum with stainless steel fasteners. All bracket fasteners are stainless steel for corrosion protection. There are qty 4 8-32 threaded standoffs provided inside the enclosure for customer mounting. Included with the Roo2 are a customer mounting plate and a patented RJ45-ECS ethernet connector system.

### Features and Benefits:

- RooTenna®, the antenna with a pouch!
- Compact, low profile 15 dBi antenna gain
- Wideband operation 2300-2700MHz
- Includes patented RJ45-ECS ethernet connector system and customer mounting plate
- Vertical or horizontal polarization, beamwidth 30 deg
- Available with RPSMA, RPTNC, MC Card, MMCX, RPMMCX and U.FL antenna connector

### Applications

- Integrated radio/antenna units
- WiMAX subscriber units
- Amplified antennas
- 802.11b/g applications

For sales information:

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## Specifications

Parameter	Min	Typ	Max	Units
Frequency Range	2300		2700	MHz
VSWR		1.5:1		
Impedance		50		OHM
Input Power			20	W
Operating Temperature	-45		+70	Deg C
Gain		15		dBi
3dB Beam Angle (E-Plane)		30		Deg
3dB Beam Angle (H-Plane)		30		Deg
Front to Back	20			dB
Weight		29 (.8)		Oz (kg)
Dimension R2T24W	10.75" x 10.75" x 3.5" (267 x 267 x 89)			Inches (mm)
Inside Dim R2T24W	9" x 9" x 2.25" (229 x 229 x 57)			Inches (mm)
Dimension R2T24L	10.75" x 10.75" x 2.6" (267 x 267 x 67)			Inches (mm)
Inside Dim R2T24LW	9" x 9" x 1.5" (229 x 229 x 38)			Inches (mm)

## Wind Loading (Lbs.)

Model	100MPH	125 MPH
R2T24-15	27.8	43.4

## System Ordering:

R2T24W-15-xx 2400-2700MHz 15dBi Rootenna® regular profile  
 R2T24LW-15-xx 2400-2700MHz 15dBi Rootenna® low profile

(Please note: Where "xx" appears, please specify connector. Connector options include RPSMA, RPTNC, MC Card, MMCX, RPMMCX and U.FL)

## Notes:

- All shipments F.O.B. Schaumburg, IL 60173
- All antennas carry a 2 Year Warranty

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*Specifications subject to change without notice.*

## Antenna Patterns

