Laird TECHNOLOGIES®

*Innovative **Technology** for a **Connected** World*

R2T24W-15 - Regular Profile

R2T24LW-15 - Low Profile

ROOTENNA® 2 PANEL ANTENNA: 2.4 & 5.8 GHz 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 and a lower profile RooTenna®.

The antenna design utilizes a wideband element array over a solid 8.5 inch square backplane for consistent performance over a wide bandwidth. 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.
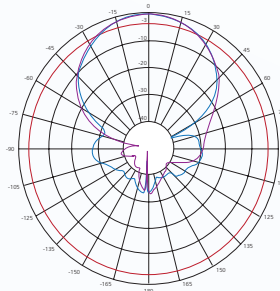
FEATURES ☑RoHS

- RooTenna®, the antenna with a pouch!
- Dual band: 2400-2485 MHz 12 dBi; 4940-5850 MHz 15 dBi
- Includes patented RJ45-ECS ethernet connector system and customer mounting plate
- Vertical or horizontal polarization
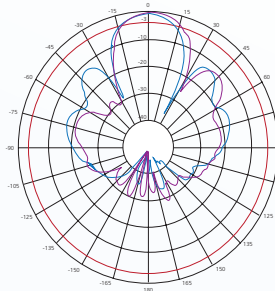- Available with RPSMA, RPTNC, MC Card, MMCX, RPMMCX and U.FL antenna connector

MARKETS

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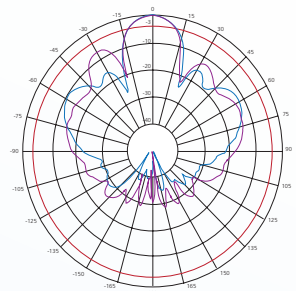- 802.11a/b/g applications
- WiMAX

ANTENNA PATTERNS

2400 MHz

5150 MHz

5825 MHz

global solutions: local support ™

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SPECIFICATIONS

PARAMETER	MIN	TYP	MAX	UNITS
Frequency Range (Dual Band)	2400 4940		2485 5850	MHz
Gain (2400-2485/4950-5850)		12/15		dBi
3db Beam Angle (2450 MHz)		43		Deg
3db Beam Angle (5470 MHz))		22		Deg
Front to Back	25			dB
VSWR		1.5:1		
Impedance		50		OHM
Input Power			20	W
Operating Temperature	-45		+70	°C
Weight		29 (0.8)		oz (kg)
Dimension R2T2458W		10.75 x 10.75 3.5 (267 x 267 x 89)		in (mm)
Inside Dim R2T2458W		9 x 9 x 2.25 (229 x 229 x 57)		in (mm)
Dimension R2T2458LW		10.75 x 10.75 x 2.6 (267 x 267 x 67)		
Inside Dim R2T2458LW		9 x 9 x 1.5 (229 x 229 x 38)		

WIND LOADING (LBS)

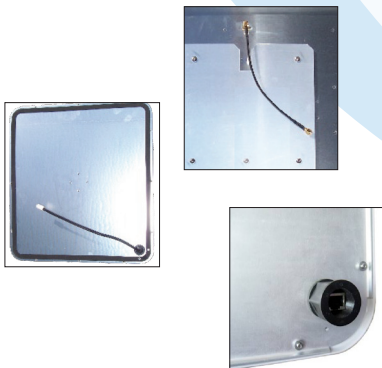| MODEL	100 MPH	125 MPH
R2T2458	27.8	43.4

SYSTEM ORDERING INFORMATION

R2T2458W-XX   4940-5850 MHz RooTenna® regular profile
R2T2458LW-XX   4940-5850 MHz 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

ANT-DS-R2T2458 0611

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Laird Connectivity](#):
R2T2458LW R2T2458LW-MC R2T2458LW-MMCX R2T2458LW-RMMCX R2T2458LW-RSMA R2T2458LW-RTNC
R2T2458LW-UFL R2T2458W R2T2458W-MC R2T2458W-MMCX R2T2458W-RMMCX R2T2458W-RSMA
R2T2458W-RTNC R2T2458W-UFL