



**HD ROOTENNA® ENCLOSURE OFFERS 900 TO 5850 MHZ OPERATION OPTIONS**

The HD RooTenna® from Laird Technologies is an innovative antenna system which gives the operator ultimate system flexibility. The die-cast enclosure is available as a stand-alone enclosure, with an integrated low-gain antenna or with a detachable high-gain panel antenna. Antennas are wide band for spectral flexibility.

Radomes are UV resistant ASA plastic. Hardware is stainless steel. The antenna systems come with a pigtail cable with choice of connectors to adapt to any available radio equipment. There is a removable and customizable user mounting plate inside for mounting electronics. The antenna models come standard with Laird Technologies patented RJ45-ECS field replaceable ethernet connector feedthru.

The die-cast enclosure can be pole or wall mounted. A heavy duty tilt bracket is available for those installations requiring up or downtilt. Eleven (11) engineered knockouts are provided; 9 sized for N connectors and 2 sized for a cable feedthru.

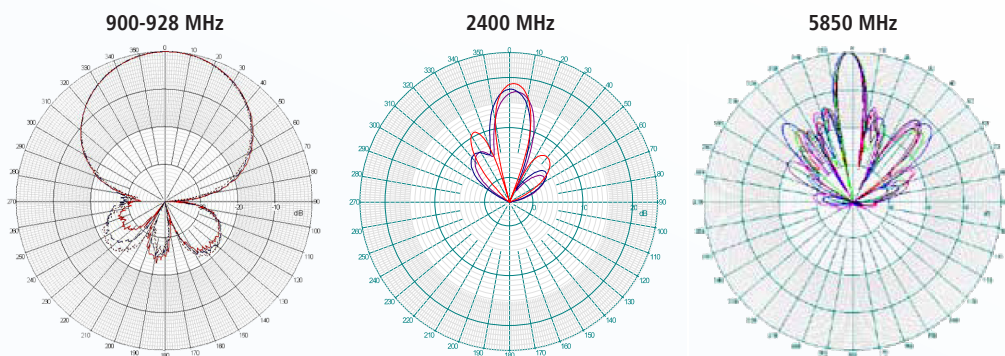
**FEATURES** 

- 11 engineered knockouts
- Wide band antennas
- Rugged and weatherproof
- Hinged cover for easy maintenance
- IP 67 Rated
- Integrated low gain or detachable high gain antenna in variety of frequencies and gains

**MARKETS**

- WiFi / WLAN / WiMAX systems
- Industrial wireless
- Mesh networks
- Wi-POP base stations
- Client antennas
- Industrial wet process electrical enclosure

**ANTENNA PATTERNS**



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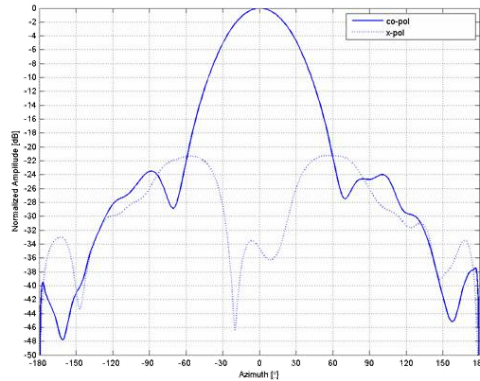
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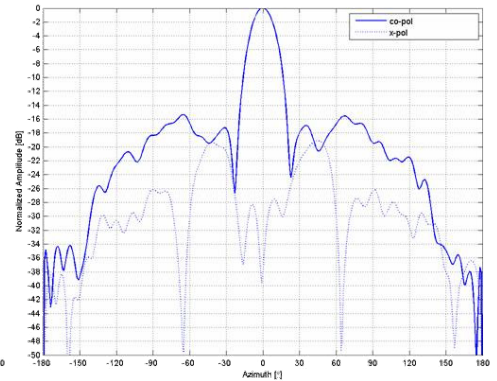
**www.lairdtech.com**

# HD RooTenna® 10 X 10 Die-Cast Enclosure Antennas

2400-2485MHz



5150-5850MHz

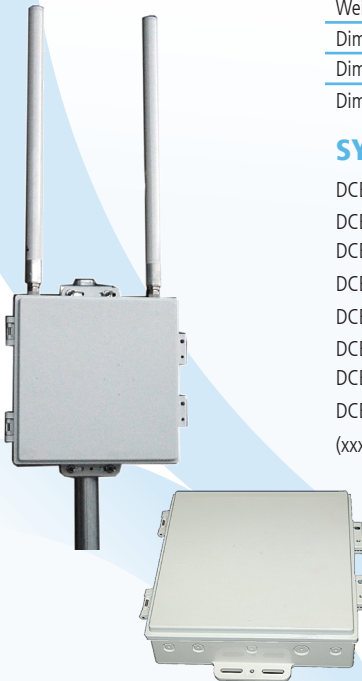


SPECIFICATIONS	900-928	2400-2700	4900-5850	2400-2485/ 5150-5850
Gain (integrated antenna)	8dBi	15dBi	19dBi	12dBi at 2.4GHz, 16dBi at 5.15GHz
Gain (detachable antenna)	12dBi	19dBi	24dBi	N/A
VSWR	1.5:1	1.5:1	1.5:1	2:1
Impedance	50 OHM			
Input Power	100 W			
Wind Survivability	Die-cast enclosure (150mph); Detachable antenna (125mph)			
Weight (die-cast enclosure)	4.5lb (2kg)			
Weight (detachable antenna)	3lb (1.4kg)			
Dimensions (inside)	10" x 10" x 2" (254 x 254 x 51 mm)			
Dimensions (outside)	12.3" x 11.5" x 3" (311 x 292 x 76 mm)			
Dimensions (detachable antenna)	16.13" x 14.63" x 1.3" (410 x 371 x 32 mm)			

## SYSTEM ORDERING INFORMATION

DCE10D-912-NF	HD RooTenna® enclosure with detachable 900-928MHz 12dBi panel antenna
DCE10D-2419-NF	HD RooTenna® enclosure with detachable 2400-2700MHz 19dBi panel antenna
DCE10D-4924-NF	HD RooTenna® enclosure with detachable 4940-5850MHz 24dBi panel antenna
DCE10I-985-xxxx	HD RooTenna® enclosure with integrated 900-928MHz 8dBi panel antenna
DCE10I-2416-xxxx	HD RooTenna® enclosure with integrated 2400-2700MHz 16dBi antenna
DCE10I-4919-xxxx	HD RooTenna® enclosure with integrated 4940-5850MHz 19dBi antenna
DCE10I-2451-xxxx	HD RooTenna® enclosure with integrated 2400-2485MHz and 4900-5850MHz 16dBi antenna
DCE10-H-001	HD RooTenna® hinged die-cast enclosure only

(xxxx = connector type - NF, SFMF, RSMM, MCM, MMCXP, RTNM, RMMXP, SSMB and UFL)



ANT-DS-HD-ROO 0809

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