

# 10x10x2 DCE Die-Cast Enclosure Antennas

## 10X10 DCE OFFERS 900 TO 5850 MHZ OPERATION OPTIONS

The DCE series die cast aluminum enclosures from Laird are 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

| SPECIFICATIONS                          | 900-928                                                  | 2400-2700 | 4900-5850 | 2400-2485/<br>5150-5850              |
|-----------------------------------------|----------------------------------------------------------|-----------|-----------|--------------------------------------|
| Gain (integrated antenna)               | 8dBi                                                     | 15dBi     | 19dBi     | 12dBi at 2.4GHz,<br>16dBi at 5.15GHz |
| Gain (detachable antenna)               | 12dBi                                                    | 19dBi     | 24dBi     | N/A                                  |
| VSWR (integrated antenna)               | 1.5:1                                                    | 1.5:1     | 1.7:1     | 2:1                                  |
| VSWR (detachable antenna)               | 1.5:1                                                    | 1.5:1     | 1.5:1     | N/A                                  |
| Impedance                               | 50 OHM                                                   |           |           |                                      |
| Input Power                             | 100 W                                                    |           |           |                                      |
| Wind Survivability                      | Die-cast enclosure (150mph); Detachable antenna (125mph) |           |           |                                      |
| Weight (die-cast enclosure)             | 5.3lb (2.4kg)                                            |           |           |                                      |
| Weight (detachable antenna)             | 3lb (1.4kg)                                              |           |           |                                      |
| Dimensions (inside)                     | 254 x 254 x 51 mm (10" x 10" x 2")                       |           |           |                                      |
| Dimensions (outside integrated antenna) | 317 x 264 x 99 mm (12.5" x 10.4" x 3.9")                 |           |           |                                      |
| Dimensions (outside detachable antenna) | 410 x 371 x 32 mm (16.13" x 14.63" x 1.3")               |           |           |                                      |
| Dimensions (stand alone DCE enclosers)  | 317.5 x 264.16 x 76.2 mm (12.5" X 10.4" X 3")            |           |           |                                      |
| Radome                                  | ASA                                                      |           |           |                                      |
| Operational Temperature                 | -30°C to +75°C                                           |           |           |                                      |
| Mount Style                             | Wall / Mast / Tilt                                       |           |           |                                      |

### SYSTEM ORDERING INFORMATION

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

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

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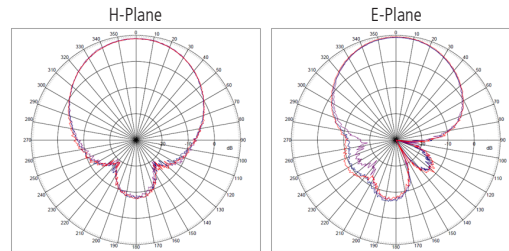


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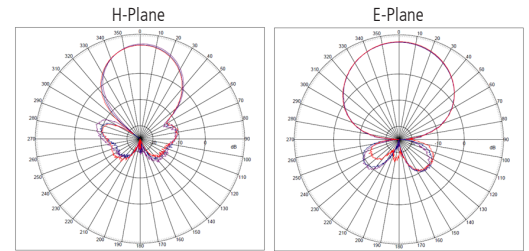
## ANTENNA PATTERNS



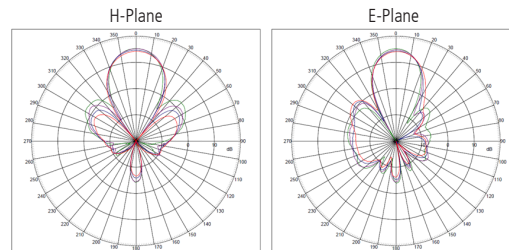
**Integrated 10x10 902-928 MHz**



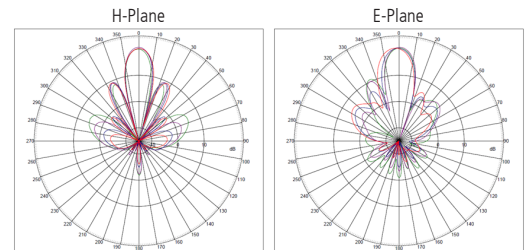
**Detachable 14x16 902-928 MHz**



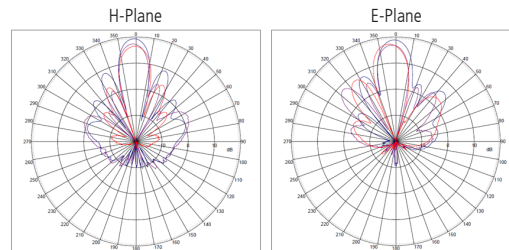
**Integrated 10x10 2.4-2.7 GHz**



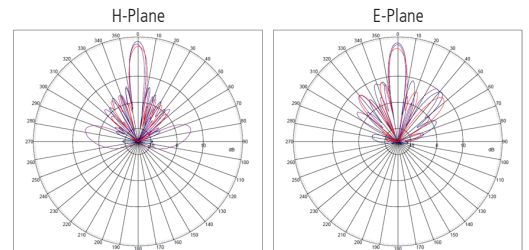
**Detachable 14x16 2.4-2.7 GHz**



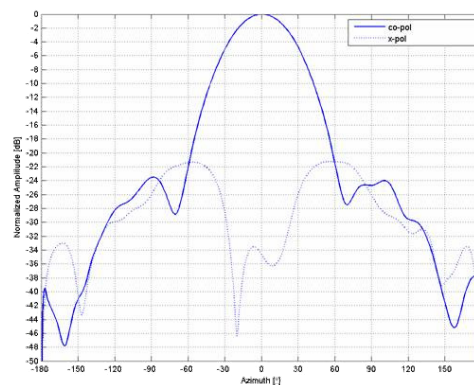
**Integrated 10x10 4.9-5.875 GHz**



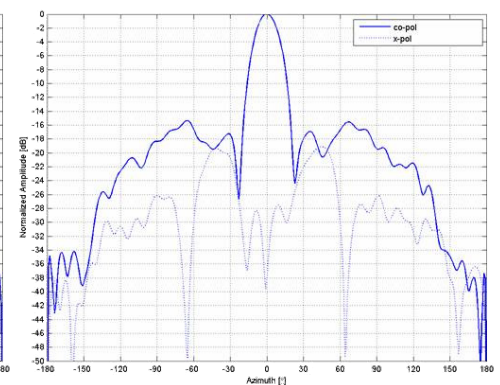
**Detachable 14x16 4.9-5.85 GHz**



## DUAL BAND PATTERNS 2400-2485 MHz



## 5150-5850 MHz



### ANT-DS-10x10-DCE 09115

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