

# 4G/3G Multiband No Ground Plane Phantom Antenna TRA6927M3xxN



## 4G/3G PHANTOM ANTENNA IDEAL FOR 700/806/850/1800/1900/2100/2300/2500/2600 MHZ APPLICATIONS

Laird Technologies' unique Phantom antenna operates simultaneously in the 698-960 MHz and 1710-2700 MHz bands, ideal for 4G/3G applications where no ground plane or metal surface is available. A mechanically robust design suitable for both indoor and outdoor applications with wide bandwidth and a low angle radiation pattern that is superior to traditional gain antennas in most applications and can therefore be used in both ceiling mount and surface mount applications.

The industry standard NMO mounting socket mates with all Laird Technologies' magnetic, trunk lid and hole mount configurations. A threaded permanent stud mount model is also available for vandal resistant mounting on brackets, panels, ceilings or any other kind of housing.

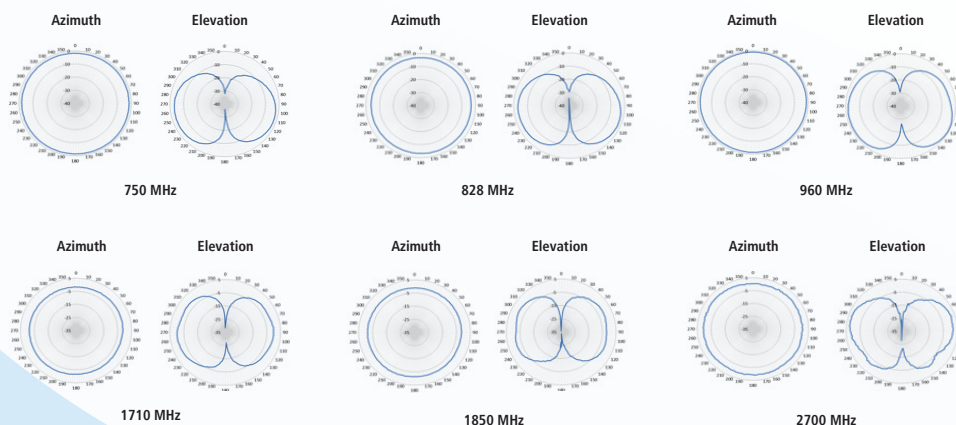
### FEATURES

- Mechanically robust for both Indoor/ Outdoor applications
- Self-contained design requiring no ground plane
- Applicable for both 3G and 4G application
- Domestic LTE 700 band and Global LTE 2600 band
- WiMAX 2300/2500/2600 bands
- Domestic Cellular and Global GSM
- Phantom out-performs a 3 dBi whip in many applications

### MARKETS

- Public Safety
- Cellular
- M2M
- Utilities
- Data transport
- Transportation
- IBW

## ANTENNA PATTERNS



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## SPECIFICATIONS

### ELECTRICAL

|                      |                                |
|----------------------|--------------------------------|
| Frequency Range      | 698 - 960 MHz, 1710 - 2700 MHz |
| VSWR                 |                                |
| 698-806 MHz          | < 2.5: 1.0                     |
| 806-960 MHz          | < 2.0: 1.0                     |
| 1710-2700 MHz        | < 2.0: 1.0                     |
| Peak Gain            |                                |
| 698-960 MHz          | 0 dBi                          |
| 1710-1990 MHz        | 1.7 dBi                        |
| 2100-2700 MHz        | 2.9 dBi                        |
| Polarization         | Vertical                       |
| Pattern              | Omnidirectional                |
| Input Impedance      | 50 $\Omega$                    |
| Maximum Power        | 100 W                          |
| Cable & Mount        | MB195 (Sold Separately)        |
| Terminations         | NMO or P-Mount w/Type N(f)     |
| Mounting Information | No Ground Plane                |

### MECHANICAL

|                         |                                   |
|-------------------------|-----------------------------------|
| Color                   | Black or White available          |
| Radome Material         | High Heat ABS                     |
| Dimensions (Ht. x dia.) | 3.45" (8.76 cm) x 1.45" (3.68 cm) |
| Operating Temperature   | -35° C to 65° C                   |
| Storage Temperature     | -45° C to 65° C                   |

## MODEL AND ORDERING INFORMATION

| MODEL            | DESCRIPTION   | COLOR | RADOME HEIGHT | WEIGHT CONNECTOR   |
|------------------|---------------|-------|---------------|--------------------|
| TRA6927M3PBN-001 | 4G/3G Phantom | Black | 3.30"         | 0.42 lbs Type N(f) |
| TRA6927M3NBN-001 | 4G/3G Phantom | Black | 3.30"         | 0.29 lbs NMO       |
| TRA6927M3PWN-001 | 4G/3G Phantom | White | 3.30"         | 0.42 lbs Type N(f) |
| TRA6927M3NWN-001 | 4G/3G Phantom | White | 3.30"         | 0.29 lbs NMO       |

### Permanent Mounting Option:

The letter "P" in the above part numbers indicates a permanent mounting option

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