



Laird Connectivity's unique Phantom® antenna operates simultaneously in the 698-960 MHz and 1700-2700 MHz bands, making it ideal for 4G/3G applications where no ground plane or metal surface is available. The mechanically robust design is 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. The antenna is ideal for both ceiling 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 AND BENEFITS

- Mechanically robust for both indoor and 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

### APPLICATIONS

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

### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	698-960	1710-2700
VSWR	< 2.5: 1.0 @ 698-806 MHz < 2.0: 1.0 @ 806-960 MHz	< 2.0: 1.0 @ 1710-2700 MHz
Peak Gain (dBi)	0 @ 698-960 MHz	1.7 @ 1710-1990 MHz 2.9 @ 2100-2700 MHz
Input Impedance (Ohms)	50	
Max Power - Ambient 25°C (W)	100	
Polarization	Vertical	

### MECHANICAL SPECIFICATIONS

Dimensions – diameter x height – cm (inches)	3.68 x 8.76 (1.45 x 3.45)
Color	Black or white available
Cable and Mount	MB195 (sold separately)
Radome Material	SABIC Lexan

### ENVIRONMENTAL SPECIFICATIONS

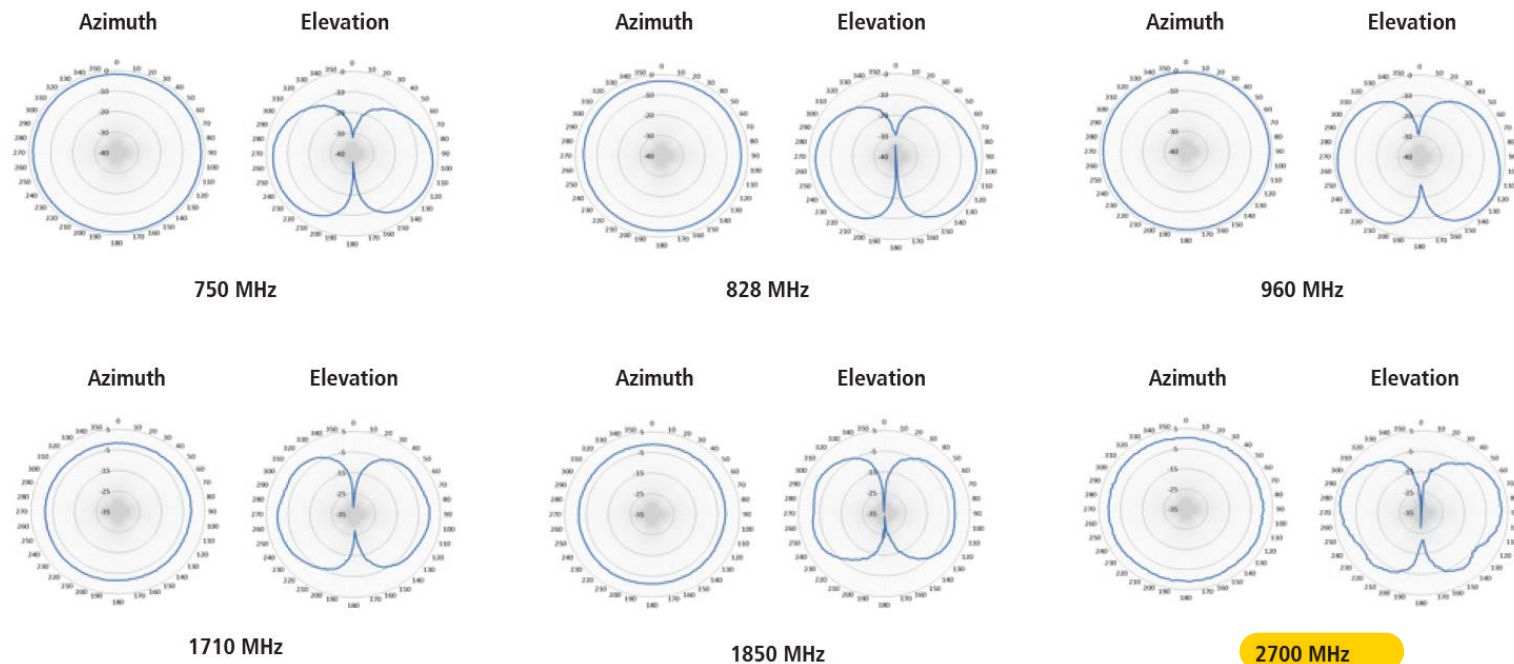
Operating Environment (Indoor or Outdoor)	Indoor and Outdoor
Operating Temperature – °C (°F)	-35 to +65°C (-31 to +149°F)
Storage Temperature – °C (°F)	-45 to +65°C (-49 to +149°F)
Material Substance Compliance	RoHS
Ingress Protection Rating	IP67

### MODEL AND ORDERING INFORMATION

MODEL	COLOR	HEIGHT	WEIGHT	CONNECTOR
TRA6927M3PBN-001	Black	3.30 in.	0.42 lbs	Type N(f)
TRA6927M3NBN-001	Black	3.30 in.	0.29 lbs	NMO
TRA6927M3PWN-001	White	3.30 in.	0.42 lbs	Type N(f)
TRA6927M3NWN-001	White	3.30 in.	0.29 lbs	NMO

**Permanent Mounting Option:** The letter "P" in the above part numbers indicates a permanent mounting option.

## RADIATION PATTERNS



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