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

Phantom® Tri-band Antenna
TRA8063M3

TRI-BAND PHANTOM® ANTENNA IDEAL FOR 806/850/1900/2600 MHZ APPLICATIONS

Laird Technologies' unique Phantom® antenna operates simultaneously in the 806-896 MHz, 1850-1990 MHz and 2500-2700 MHz bands. 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 can 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 ✓RoHS

- Mechanically robust for both Indoor/Outdoor applications
- Suitable for high band 4G application
- Phantom antenna outperforms a 3 dBi whip in many applications

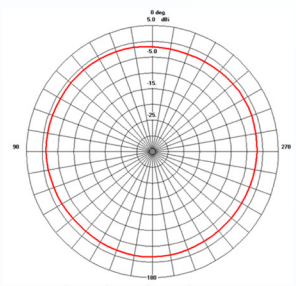
MARKETS

- Public Safety
- Cellular
- M2M
- Utility
- Transportation
- IBW

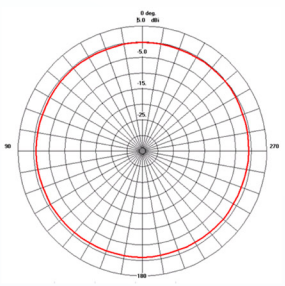
ANTENNA PATTERNS

Azimuth Patterns

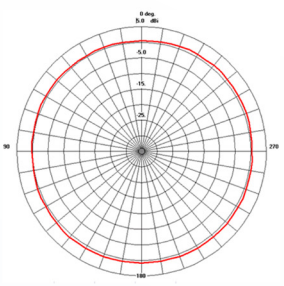
850 MHz



1920 MHz

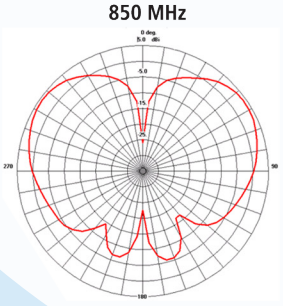


2700 MHz

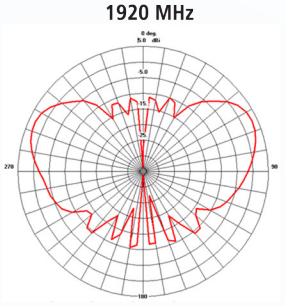


Elevation Patterns

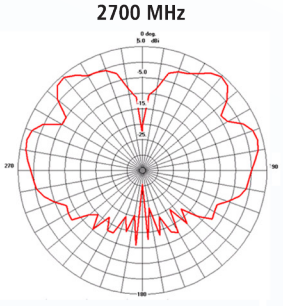
850 MHz



1920 MHz



2700 MHz



global solutions: local support™

Americas: +1.847 839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

Laird TECHNOLOGIES®

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Phantom® Tri-Band Antenna
TRA8063M3

SPECIFICATIONS

ELECTRICAL	
Frequency Range	806-896 MHz, 1850-1990 MHz, 2500-2700 MHz
VSWR	< 2.1: 1.0
Return Loss	-10dB max
Nominal Peak Gain	
806-896 MHz	4 dBi
1850-1990 MHz	3.5 dBi
2500-2700 MHz	3.0 dBi
Average Efficiency	
806-896 MHz	89% (max: 93%)
1850-1990 MHz	73% (max: 74%)
2500-2700 MHz	77% (max: 82%)
Polarization	Vertical
Pattern	Omnidirectional
Input Impedance	50 Ω
Maximum Power	100 W
Cable & Mount	MB195 (Sold Separately)
Terminations	NMO or P Mount w/N Female Connector

MECHANICAL	
Color	Black or white available
Radome Material	High Heat ABS
Dimensions (Ht. x dia.)	3.3" (8.38 cm) x 1.44" (3.65 cm)
Operating Temperature	-40° C to 85°C

MODEL AND ORDERING INFORMATION

MODEL	DESCRIPTION	COLOR	RADOME HEIGHT	WEIGHT CONNECTOR
TRA8063M3PB-001	Tri Band Phantom®	Black	3.30"	0.38 lbs Type N(f)
TRA8063M3NB-001	Tri Band Phantom®	Black	3.30"	0.28 lbs NMO
TRA8063M3PW-001	Tri Band Phantom®	White	3.30"	0.38 lbs Type N(f)
TRA8063M3NW-001	Tri Band Phantom®	White	3.30"	0.28 lbs NMO

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

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