



## TRA8063M3

Phantom® Tri-band Antenna 806-896 MHz/  
2500-2700 MHz

TE's 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 TE 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 type of housing.

### FEATURES AND BENEFITS

- Mechanically-robust for both indoor and outdoor applications
- Suitable for high band 4G applications
- Phantom antenna outperforms a 3-dBi whip in many applications

#### ELECTRICAL SPECIFICATIONS

Operating Frequency (MHz)	806-896	1850-1990	2500-2700
Peak Gain (dBi)	4.0	3.5	3.0
Efficiency - avg (%)	89	73	77
Efficiency - max (%)	93	74	82
VSWR (max)	2.0:1		
Return Loss (dB) - max	-10		
Polarization	Vertical		
Pattern	Omnidirectional		
Nominal Impedance (Ohms)	50		
Max Power - Ambient 25°C (W)	100		

## MECHANICAL SPECIFICATIONS

Dimensions - diameter x height - cm (inches)	3.65 x 8.38 (1.44 x 3.3)
Color	Black or white available
Radome Material	SABIC Lexan
Cable and Mount	MB195 (sold separately)

Operating Temperature - °C (°F)

-40 to +85°C (-40 to +185°F)

## CONFIGURATION

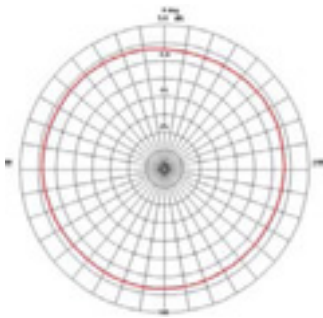
PART NUMBER	COLOR RADOME	HEIGHT	WEIGHT CONNECTOR
TRA8063M3NB-001	Black	8.4 cm (3.3 in.)	0.15 lbs NMO
TRA8063M3PB-001	Black	8.4 cm (3.3 in.)	0.25 lbs N Female
TRA8063M3NW-001	White	8.4 cm (3.3 in.)	0.15 lbs NMO
TRA8063M3PW-001	White	8.4 cm (3.3 in.)	0.25 lbs N Female

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

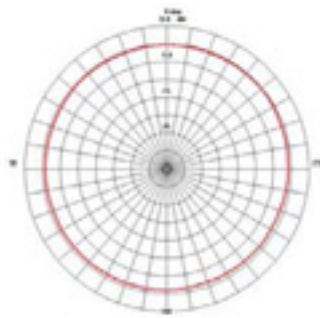
## RADITION PATTERN

### AZIMUTHA

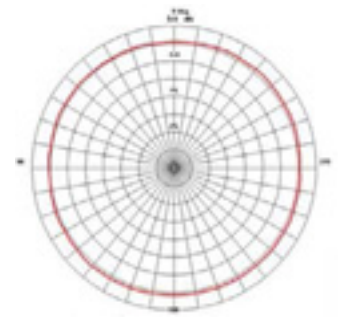
850 MHz



1920 MHz

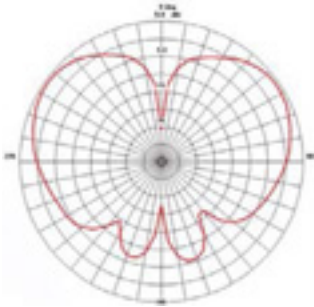


2700 MHz

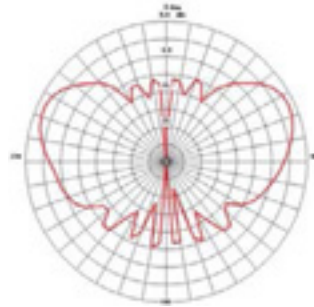


## ELEVATION

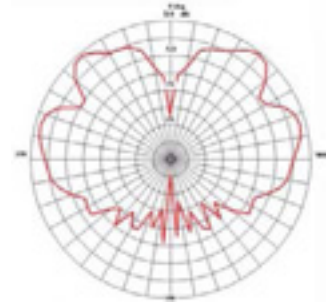
### 850 MHz



### 1920 MHz



### 2700 MHz



### TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

### te.com

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, complete, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In no event will TE be liable for any direct, indirect, incidental, special or consequential damages arising from or related to recipient's use of the information. It is the sole responsibility of recipient of this information to verify the results of this information using their engineering and product environment. Recipient assumes any and all risks associated with the use of the information. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

©2025 TE Connectivity. All Rights Reserved.

05/25 Original