



MULTI FUNCTION MIMO ANTENNA

Multi Function MiMo Antenna

Plug&play MiMo Cellular Antenna for onboard Rail applications.

Multi-service MiMo Antenna delivers connectivity for GSM (up to LTE), global positioning (compatible with GNSS, Galileo, and standards) and Wi-Fi connectivity in a robust housing. Designed for outdoor use, the antenna is compliant to IP66 and even protects against washing system water jets. It also withstands direct sunlight.

BENEFIT STATEMENTS

- The up to 3x3 MiMo (Multiple in Multiple out) Antenna functionality enhances signal reception and throughput.
- Integration of Cellular, Wi-Fi and GNSS into one antenna enables single hole mounting while preserving the vehicles resale value.
- The compact shark fin style housing reduces aerodynamic drag and reduces energy consumption.

Multi Function MiMo Antenna

APPLICATIONS

- Cars
- Trucks
- Generators
- Pumps
- Emergency vehicles

KEY FEATURES

- Compact shark fin housing
- 2x2 MiMo GSM function
- GNSS/Galileo function
- 2x2 or 3x3 Wi-Fi Antenna
- Groundplane-independent
- Single hole mounting
- IP66

ELECTRICAL SPECIFICATIONS

- Frequency Range (MHz):
 - 698-960 / 1710-2170 / 2500-3800 (2G,3G,4G)
 - 1562-1612 (GNSS/Galileo)
 - 2300-2500, 4900-6000 (WLAN)
- Peak Gain (Excluding cable loss):
 - Elements 2&3 - 2dBi (598-960MHz), 5dBi (1710-3800MHz)
 - Elements 4,5,6 - 4dBi (2.4GHz), 6dBi (5.8GHz)
- Isolation with 5m CS29: Cellular >12dBi, WiFi >20dB
- Typical efficiency w/o cable loss: elements 2&3: >50%
- Correlation co-efficient: Elements 2&3: <0.2
- Polarisation: Vertical (Element 6 is Horizontal)
- Pattern: Omni Directional
- Impedance: 50Ω
- Max Input Power: 25W

MECHANICAL SPECIFICATIONS

- Dimensions: Height-50mm (2.2"), Length-170mm (6.77"), Width-60mm (2.4")
- Operating Temp: -40°C to +80°C (-40° to 176°F)
- Approx Weight 260g

MATERIALS SPECIFICATIONS

- ASA, EPDM, Aluminium Alloy Black

ENVIRONMENTAL SPECIFICATIONS

- IP66

PARTS LIST

BU information

Part Number	Description
2332157-1	Multi Function MiMo Antenna 2G/3G/4G
2332157-2	Multi Function MiMo Antenna 2G/3G/4G+GNSS
2332157-3	Multi Function MiMo Antenna 2G/3G/4G+GNSS+2x2WiFi
2332157-4	Multi Function MiMo Antenna 2G/3G/4G+GNSS+3x3WiFi

te.com

© 2018 TE Connectivity. All Rights Reserved.

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

1-1773963-8 10/18 Tangence