

LTE MiMo With GPS/GNSS

Failover MiMo LTE Wall/Post Mount Antenna

The MiMo antenna provides an innovative and future proof solution for 2G/3G/4G LTE networks. Incorporating two separately fed ultra wideband elements in a single housing the antenna is equipped to provide client side MiMo and diversity support for the networks of today and tomorrow.

With 2dBi gain at 698-960MHz, 5dBi gain at 1710-2170MHz and 4dBi gain at 2.2-2.7GHz the antenna provides extra gain performance where it is needed most as well as an integrated GPS/GNSS element with 26dB gain LNA.

The rugged, weatherproof housing is designed for wall mounting. Wall and mast mount brackets are provided. 5 metres (16") of fitted low loss double shielded twin cable minimises exposed connector joints and simplifies cable management for easy installation.



Applications:



Failover



Retail



Gas /
Convenience Store



School / Higher Ed



Mining

Electrical Data

Frequency Range	Element 1 & 2	698-960 / 1710-2700MHz
Operational Bands	2G/3G/4G LTE	
Radiation Pattern	Hybrid	
Nominal Polarization	Vertical	
Peak Gain (excl cable loss) †	698-960 MHz	2dBi
	1710-2170 MHz	5dBi
	2200-2700 MHz	4dBi
VSWR (excluding cable)	< 2:1	
Efficiency (excluding cable loss - all bands)	> 50%	
Correlation Co-efficient (all bands)	< 0.2	
Nominal Impedance	50Ω	
Max Input Power	20 Watts	

† Peak gain simulated off a groundplane and does not include cable attenuation

Mechanical Data

Dimensions	Height	6.1" (155mm)
	Width	6.1" (155mm)
	Depth	2.3" (60mm)
Operating Temperature	-40° / 176°F (-30° / +80°C)	
Material	U.V. stable, impact resistant ASA	
Color	White Luran	
Ingress Protection	IP65	
Weight	1000g	

GPS/GNSS Data

Frequency Range	1562-1612MHz
VSWR	<2:1 ± 4MHz
Gain: LNA	26dB
Operating Voltage	3-5V DC (fed via Coax)
Polarization	Right Hand Circular
Current	<20mA

Cable Data

	CELL	GPS
Type	Double Shielded RG58	RG174
Length	16ft (5m)	20ft (6m)
Termination	SMA Plug	SMA Plug

Mounting Data

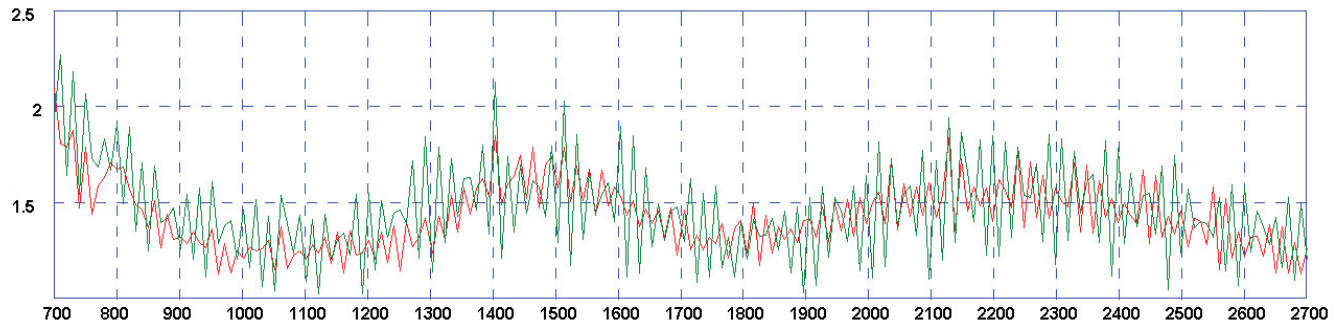
Mounting Type	Wall mount / Mast mount / Desk mount
Pole Diameter	0.78 - 1.96" (20-50mm)
Mounting Bracket Material	Stainless steel / Aluminium

TECHNICAL DRAWING

ELECTRICAL DATA

VSWR

Typical VSWR Elements 1 & 2 *

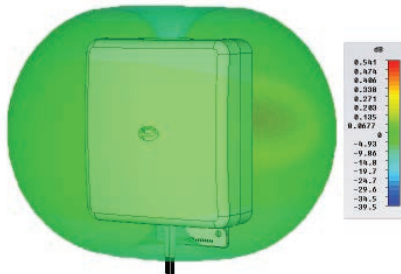


*VSWR Measured with 5m (17") of CS29 cable

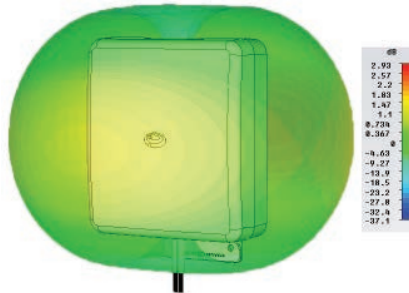
RADIATION PATTERNS

3D RADIATION PATTERNS - 2G/3G/4G LTE ELEMENTS 1 & 2*

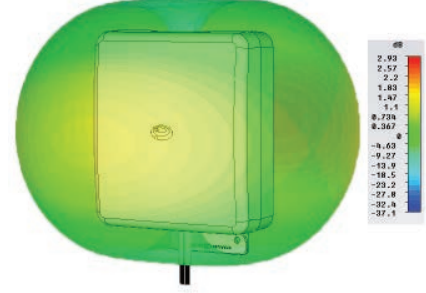
3D Gain Plot Side (750MHz)



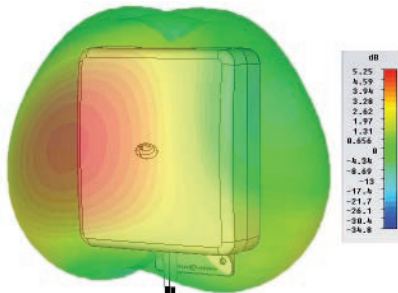
3D Gain Plot Side (850MHz)



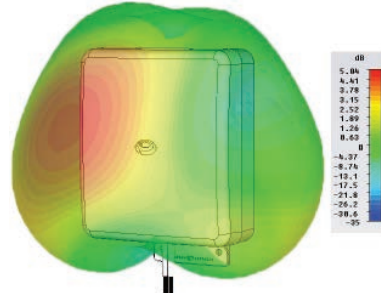
3D Gain Plot Side (950MHz)



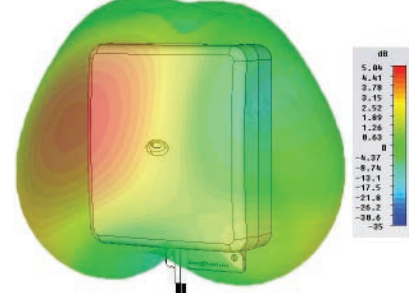
3D Gain Plot Side (1800MHz)



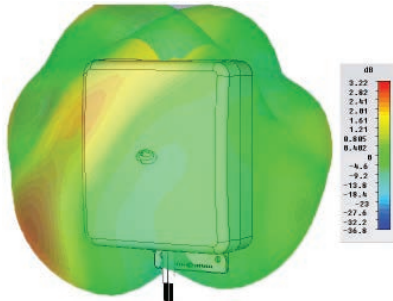
3D Gain Plot Side (1900MHz)



3D Gain Plot Side (2100MHz)



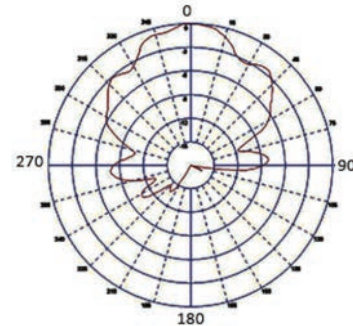
3D Gain Plot Side (2600MHz)



3D Gain Plot Side (1750MHz)

3D RADIATION PATTERNS - GPS/GNSS ELEMENT 3*

GPS/GNSS Typical E-Plane (160MHz)



*All pattern and gain measurements taken on a 400 x 400mm (2' x 2') ground plane without additional cable.

FOR MORE INFORMATION, VISIT CRADLEPOINT.COM