

MIMO ROOFTOP ANTENNA RAIL ROOFTOP ANTENNA WITH GPS

The MiMo Rooftop Antenna is designed specifically for use on trains, trams and buses. Incorporating two elements operating wideband across all frequencies from 698MHz to 6000MHz the MiMo Rooftop Antenna range is versatile and future proof. The MiMo series has two DC grounded radiating elements, in versions with a GPS module it is protected by an integrated gas discharge surge arrestor.

Housed in a high impact, flame retardant Polycarbonate housing, the MiMo Rooftop Antenna is weatherproof and environmentally sealed to IP67, ensuring that the antenna's performance is never compromised.

Technical Features

- Covers all LTE, WiFi & WiMAX frequencies used worldwide, including GSM-R, Cellular 700-6000MHz
- 2x Elements (700MHz to 6GHz)
- Optional active GPS antenna with built in surge arrestor
- Compliant with rail standards, EN45545, EN50155, EN61373 & EN50121
- Housing Polycarbonate 1000 PEI & Aluminium base
- Industry standard 4 hole mount
- DC Grounded Elements
- Defined isolation and Correlation
- Rated IP67 (When installed according to the installation instructions)

Applications

- High speed trains & locomotives
- Trams
- Buses / coaches
- Mass transit systems
- Heavy duty machinery (quarry trucks etc.)

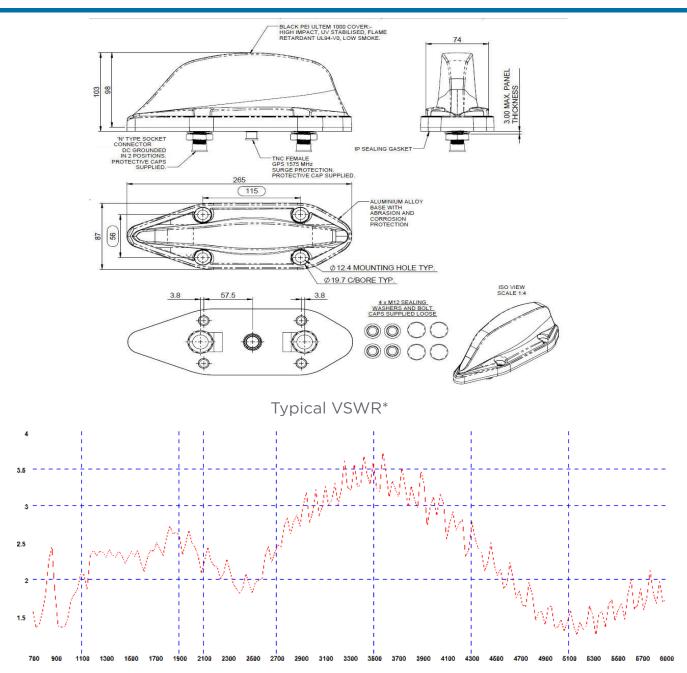
Ordering Information

MiMo Rooftop Antenna with GPS

1-2823592-1

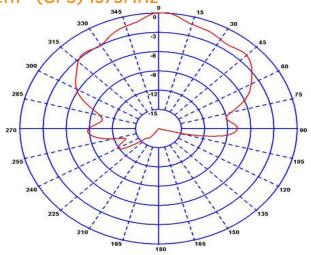


Rail Rooftop Antenna



* Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable.

Typical E-Plane Pattern - (GPS) 1575MHz

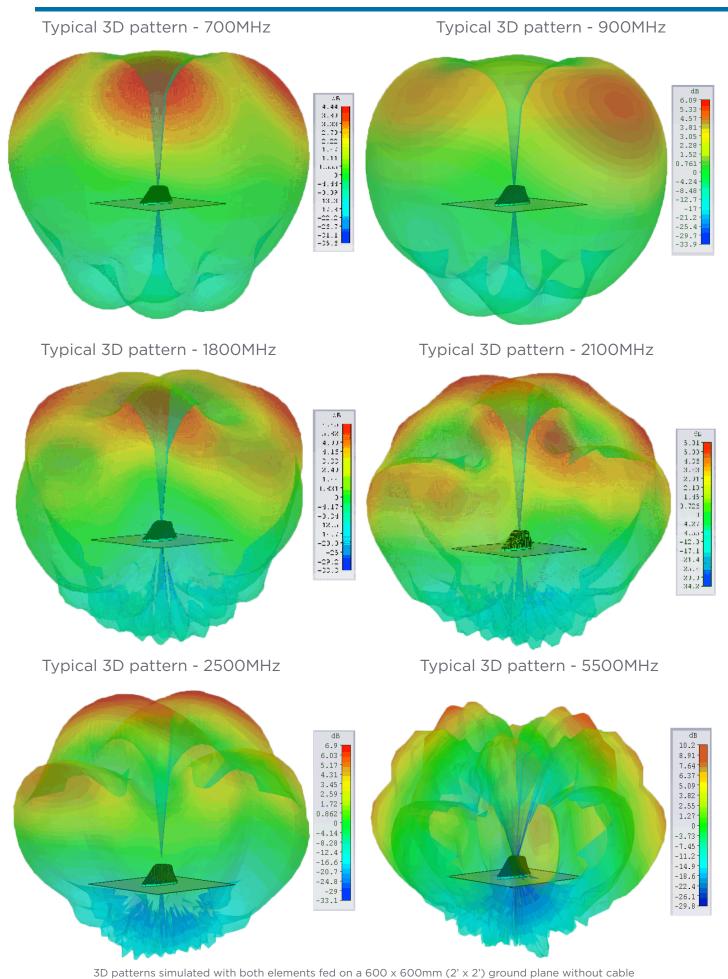






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MiMo Rooftop Antenna with GPS

Electrical Data		
Frequency Range (MHz)		2 X 698-960 / 1700-6000 MHz
Peak Gain Isotropic**	698-960	6dBi
	1710-2700	6dBi
	4.9-6GHz	10dBi
Polarisation		Vertical
Typical VSWR*		<2.5:1
Pattern		Omni-directional
Impedance		50 Ω
Max Input Power (W)		60
Protected by overvoltage protection for		27.5 kV AC, 3.8 kV DC; 40 kA/0.1
GPS Data		
Frequency Range (MHz)		1560-1612
Impedance		50 Ω
LNA Gain		26dB <u>+</u> 3
Polarisation		Right Hand Circular
Operating Voltage		3-5V DC
Current (Typical)		15mA
GPS Antenna EMC Compliance		EN 301 489-1 V1.81 & EN 301 489-3 V1.6.1 EN 50121-3-2:2015
Mechanical Data		
Dimensions	Height (N/inc pad)	98mm (3.86")
	Width	87mm (3.42")
	Length	265mm (10.4")
Environmental Specification		
Operating Temp		-50°C / +80°C (-58°F / +176°F)
Radome Material		Polycarbonate 1000
Radome Flame Retardance Rating		V0 (UL94)
Base Material		Cast Aluminium (corrosion protected & powder coated)
Sealing		IP67 (When installed according to the installation instructions)
Approvals Data		
Regulatory Approvals		EN50155:2007 (Dry heat & Cooling) EN61373:2010 / EN50155:2007 (Shock & Vibration) EN 45545:2013 (Fire & Smoke)
Mounting Data		
Fixing		4x mounting holes to suit M12 bolts
Termination Data		
Termination	Comms	2 x N (female) - DC grounded
	GPS	TNC (female) - surge protected
** Massurad on 2 600 × 600mm (2'	x 2') ground plane w	ith both elements fed and without cable.

 ** Measured on a 600 x 600mm (2' x 2') ground plane with both elements fed and without cable. * Measured on a 600 x 600mm (2' x 2') ground plane with 1m (3') of low loss cable.

