

ST421R-SF1SNF Mobile omni antenna, radome enclosed, 0 dBd, 764-806

- Omni-directional transit antenna with heavy duty fiberglass radome with polyurethane coating
- Covers both public GSM and railway GSM-R frequency bands
- Ideal for height-restricted applications
- Aerodynamic design reduces wind-loading

The ST421 is an omni-directional antenna which covers both the public GSM and railway GSM-R frequency bands.

The ST421 is an extremely rugged radome-enclosed antenna specifically designed for rail and heavy transport applications. Its low profile makes it ideal for train use where antenna height is limited by restrictive loading gauges.



Application Notes

- For optimal operation, the ST421R should be mounted on a 24x24 inch ground plane. The antenna should still perform using a 10x10 inch ground plane but won't be optimized.
- IP rating = 65

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 018229		ST421R-SF1SNF	Issue: 2	Dated: 20-10-15 Dated: 27-03-12

Electrical Specifications

Frequency Range	MHz	764 to 806	
Bandwidth	MHz	42	
Connector		N-Female (Socket)	
Gain (nominal)	dBi (dBd)	2.1 (unity)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
Average Power Input (max)	W	200	
Lightning protection		DC ground	

Notes

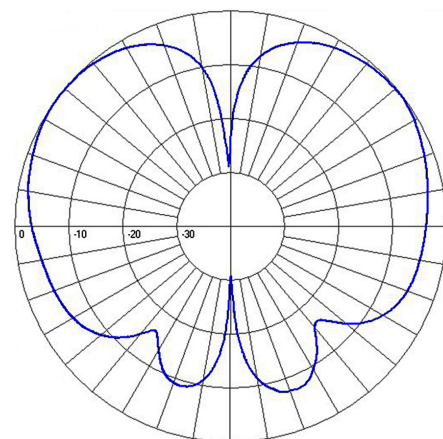
*1 : nominal, ref. to 1/4-wave monopole

Mechanical Specifications

Width	mm (in)	94 (3.7)
Length/ Height	mm (in)	53 (2.1)
Length	mm (in)	188 (7.4)
Radome material		Grey, Fiberglass
Actual Shipping weight	kg (lbs)	1.14 (2.5)
Shipping dimensions	mm (in)	127x127x203 (5x5x8)
Ground Plane (min)	mm (in)	(10x10)
Mounting hardware		BOLT M6 x 25, A2

Environmental Specifications

Temperature range	°C (°F)	-30 to +60 (-22 to +140)
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Elevation

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