

ST421R-SF2SNF(C01) Mobile omni, 0 dBi, low profile, radome, 1 ft pigtail, 806-870 MHz

- Omni-directional transit antenna with heavy duty fiberglass radome with polyurethane coating
- Ideal for height-restricted applications
- Aerodynamic design reduces wind-loading
- 1 foot pigtail with N-female connector

The ST421 is an extremely rugged radome-enclosed antenna that is well suited for rail, heavy transport and a variety of other mobile 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.
- N-female connector is terminated on a 1 foot pigtail.

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 018228 Customer Tech Manual 006235		ST421R-SF2SNF(C01)	Issue: 2	Dated: 02-03-17 Dated: 02-03-17

Electrical Specifications

Frequency Range	MHz	806 to 870
Bandwidth	MHz	64
Connector		N-Female
Gain (nominal)	dBd (dBi)	unity (2.1) *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

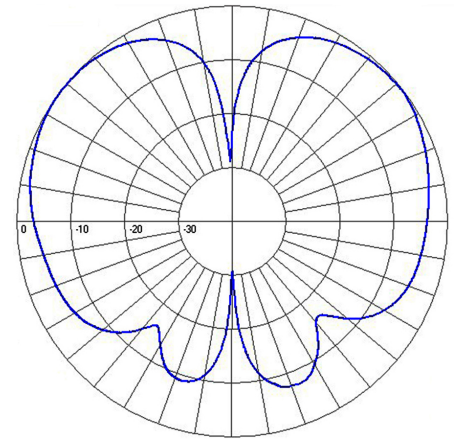
*1 : nominal, ref. to 1/4-wave monopole

Mechanical Specifications

Width	in (mm)	3.7 (94)
Length/ Height	in (mm)	2.1 (53)
Length	in (mm)	7.4 (188)
Radome material		Grey, Fiberglass
Actual shipping weight	lbs (kg)	2.5 (1.14)
Shipping dimensions	in (mm)	5x5x8 (127x127x203)
Ground Plane (min)	in (mm)	10x10
Mounting hardware		BOLT M6 x 25, A2
Ingress protection		65

Environmental Specifications

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

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