

**ST421R-SF3SNF** Mobile omni, 0 dBd, low profile, radome enclosed, 870-960 MHz

- 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.

This extremely rugged radome-enclosed antenna is 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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### Electrical Specifications

Frequency Range	MHz	870 to 960	
Bandwidth	MHz	90	
Connector		N-Female (Socket)	
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

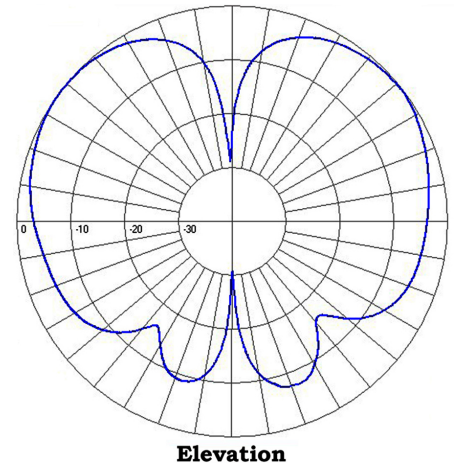
\*1 : nominal, ref. to 1/4-wave monopole

### Mechanical Specifications

Width	in (mm)	3.7 (94)
Length/ Height	in (mm)	2.09 (53)
Length	in (mm)	7.37 (187)
Radome material		Grey, Fiberglass
Actual shipping weight	lbs (kg)	2.5 (1.14)
Shipping dimensions	in (mm)	10x5x5 (254x127x127)
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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