

SP440-SF2SNF Enclosed log periodic data system antenna, 5 dBd, 800-1000 MHz

Also referred as: SRL441U

- Compact radome-enclosed log-periodic antenna for SCADA/telemetry application.
- Light but rugged ABS radome provides protection from snow, ice and environmental hazards.
- Full 200MHz of bandwidth - Ideally suited for PTP, PMP and receive-only applications.

The SP440 series is a compact, radome-enclosed log-periodic antenna specifically designed for use in SCADA/telemetry applications.

The rugged ABS radome protects the antenna from snow and ice accumulation which can compromise the performance of the antennas. The compact profile makes them inconspicuous and easy to mount. They can be mounted directly to a wall or data-terminal housing, or to a mast, pipe or other structure. Rugged but light, the SP440 imposes a very modest wind load and can be expected to survive very severe environmental conditions.

The SP440 provides up to 200MHz of operating bandwidth which makes them well-suited to multi-coupled systems involving point-to-point, point-multipoint and receive-only communications.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

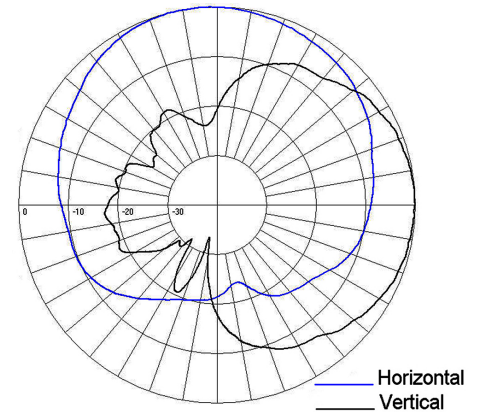
Frequency Range	MHz	800 to 1000
Bandwidth	MHz	200
Connector		N-Female
Gain (nominal)	dBd (dBi)	5 (7.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Directional
Horizontal beamwidth (typ)	degrees	95
Vertical beamwidth (typ)	degrees	65
Average Power Input (max)	W	50
Lightning protection		DC ground
Front-to-back ratio (typ)	dB	25

Mechanical Specifications

Width	in (mm)	2.88 (73)
Depth	in (mm)	8.5 (216)
Length/ Height	in (mm)	10.56 (268)
Radiating element material		PCB
Radome material		ABS (white)
Weight	lbs (kg)	2.5 (1.14)
Mounting Hardware (Included)		Clamp167
Actual shipping weight	lbs (kg)	5 (2.27)
Shipping dimensions	in (mm)	5x9x13 (127x229x330)
Mounting configurations		universal

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.39 (0.04)
Wind Loading Area (1/2" ice)	ft² (m²)	0.51 (0.05)
Rated wind velocity (no ice)	mph (km/h)	190 (306)
Rated wind velocity (1/2" radial ice)	mph (km/h)	165 (266)
Lateral thrust (100 mph No Ice)	lbs (N)	24 (106.8)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	9 (12.2)



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