

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.



| Region | United States | Europe, Middle East and Africa | Caribbean and Latin America | Canada and rest of the world |
|------------------|-----------------------|--------------------------------------|--------------------------------|--|
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| E-mail | salesusa@sinctech.com | salesuk@sinctech.com | salesla@sinctech.com | salescan@sinctech.com |

Electrical Specifications

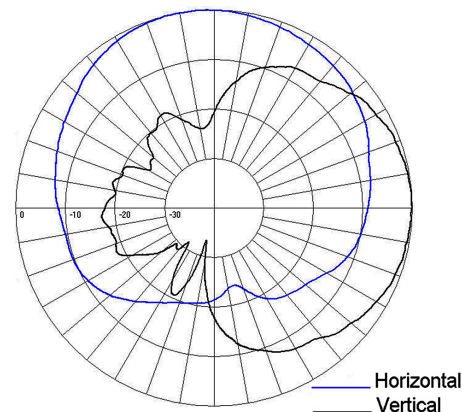
| | | |
|----------------------------|-----------|-------------|
| Frequency Range | MHz | 800 to 1000 |
| Bandwidth | MHz | 200 |
| Connector | | N-Female |
| Gain (nominal) | dBi (dBd) | 7.1 (5) |
| Input VSWR (max) | | 1.5:1 |
| Polarization | | vertical |
| Impedance | Ω | 50 |
| Pattern | | Directional |
| 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 | mm (in) | 73 (2.88) |
| Depth | mm (in) | 216 (8.5) |
| Length/ Height | mm (in) | 268 (10.56) |
| Radiating element material | | PCB |
| Radome material | | ABS (white) |
| Weight | kg (lbs) | 1.14 (2.5) |
| Mounting Hardware (Included) | | Clamp167 |
| Actual shipping weight | kg (lbs) | 2.27 (5) |
| Shipping dimensions | mm (in) | 127x229x330 (5x9x13) |
| Mounting configurations | | universal |

Environmental Specifications

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



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