

SR4A9-HF4P2LDF(DXX-PIP) Aurora™ collinear, 9.5 dBd, bi-directional, low PIM, PIP, 746-806 MHz

- Unique antenna design with a bi-directional pattern and high gain for enhanced coverage
- Corporate feeding for stable pattern
- Industry-leading -150 dBc PIM rating for low noise characteristics, ideal for trunking systems
- Heavy duty construction for long life in harsh environment

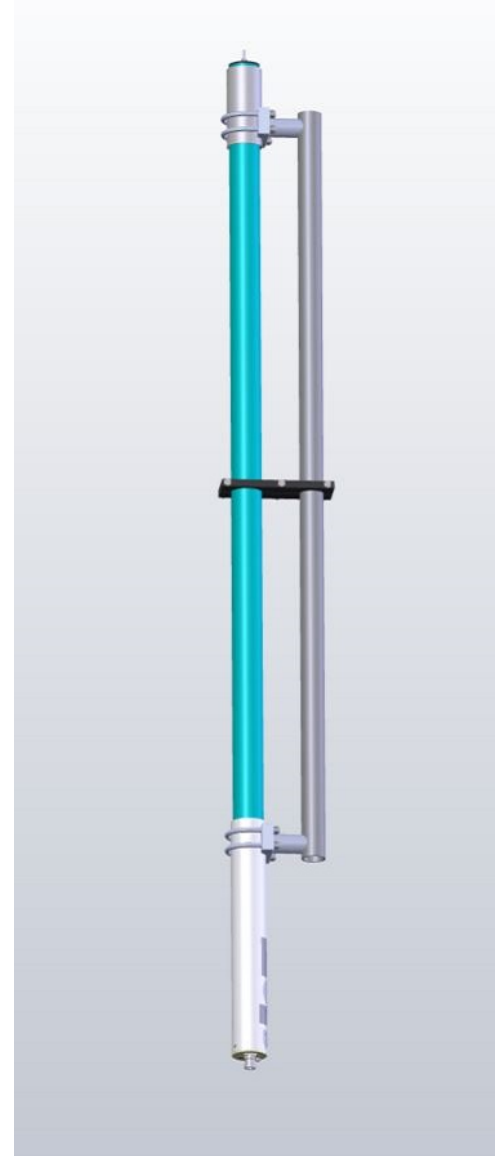
The Sinclair SR antenna family comes with an unique design that features a directional pattern and an outstanding gain for enhanced coverage. The patent-pending antenna utilizes a cutting-edge, field-proven balanced design to deliver an unparalleled combination of higher gain, wider bandwidth, highly consistent RF pattern, higher wind rating and lighter weight, all in a small form factor. Designed according to IEC62305 Part 1-4, VDE0855-300, and fulfilling the requirements of lightning protection class II, these antennas are fully DC-grounded and protected with a lightning spike at the top of the radome. Heavy-duty construction along with the enhanced wind rating, means these antennas can last for years in the most challenging environments. The new Aurora SR series is ideal for public safety applications as it offers reliability, durability, and easy installation in a lightweight and compact package.

When ordering, please refer to the chart below for the appropriate model numbers. Downtilt configurations are subject to different pricing. Null fill or inverted versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Downtilt	Mounting Config.
SR4A9-HF4P2LDF(D00-PIP)	0°	upright / inverted
SR4A9-HF4P2LDF(D01-PIP)	1°	upright
SR4A9-HF4P2LDF(D02-PIP)	2°	upright
SR4A9-HF4P2LDF(D03-PIP)	3°	upright
SR4A9-HF4P2LDF(D04-PIP)	4°	upright
SR4A9-HF4P2LDF(D05-PIP)	5°	upright
SR4A9-HF4P2LDF(D06-PIP)	6°	upright
SR4A9-HF4P2LDF(D07-PIP)	7°	upright
SR4A9-HF4P2LDF(D08-PIP)	8°	upright
SR4A9-HF4P2LDF(D09-PIP)	9°	upright
SR4A9-HF4P2LDF(D10-PIP)	10°	upright

Note:

- * The antenna can be mounted either at the top, or to the side of the towers.
Top mount: 2 x Clamp147 is recommended, to be purchased separately.
Side mount: 1 x SMK-425-A7-T3 side mount kit is recommended, to be purchased separately. When side-mounted, the antenna will benefit from a higher wind rating, see the next page for details. To understand more on installation, see separate CTM (customer technical manual) for details.



Antenna may not appear exactly as image.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Electrical Specifications

Frequency Range	MHz	746 to 806	
Bandwidth	MHz	60	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	9.5 (11.6)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Bi-directional	
Vertical beamwidth (typ)	degrees	13	*2
Average Input Power (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
PIP(KW, max)		25	
Lightning protection		DC ground	
Electrical tilt (available)		0 to 10 degrees	

Notes

- *1 : Variance ±1dB.
- *2 : ±10 degrees
- *3 : Variance ±1"
- *4 : Variance ±1"
- *5 : Variance ±1"
- *6 : Qty: 2. The clamp is determined by tower leg, refer to Sinclair Clamp Selection Guide for details.
- *7 : Not included, complies w/ EIA/TIA-329 standard, available separately.
- *8 : For top mount; 220 mph when side mounted with SMK kit.
- *9 : For top mount; 180 mph when side mounted with SMK kit.

Ordering Information

Clamps must be purchased separately.

Mechanical Specifications

Width	in (mm)	14.25 (362)	*3
Depth	in (mm)	5.5 (140)	*4
Length/ Height	in (mm)	105.6 (2682)	*5
Base pipe diameter	in (mm)	3.5 (89)	
Base pipe mounting length	in (mm)	15 (381)	
Radiating element material		prntd circuit bd	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	38 (17.25)	
Weight iced (1/2" ice)	lbs (kg)	61 (27.69)	
Mounting Hardware (Optional)		Clamp147, or Clamp147M	*6
Recommended For Offset Side Mount:		SMK-425-A7-T3	*7
Mounting configurations		upright, inverted	
Estimated Shipping Weight	lbs (kg)	46 (20.88)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.8 (0.26)	
Wind Loading Area (1/2" ice)	ft² (m²)	3.7 (0.34)	
Survival wind velocity (no ice)	mph (km/h)	294 (473)	
Survival wind velocity (1/2" radial ice)	mph (km/h)	238 (383)	
Rated wind velocity (no ice)	mph (km/h)	210 (338)	*8
Rated wind velocity (1/2" radial ice)	mph (km/h)	170 (274)	*9
Lateral Thrust (100 mph No Ice)	lbs (N)	90 (400.3)	
Bending moment (100 mph No Ice)	ft-lbs (Nm)	304 (410.4)	
Tip deflection (100 mph No Ice)	degrees	0.4	

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