

700-1000 MHz Antennas SR4B(X)-HL PIM Certified Series

SR4BE-HF3P3LDF(DXX-PIP)

Aurora™ collinear, 14.3 dBd, 120° beamwidth, Low PIM, PIP, 806-869 MHz

- Patent-pending Aurora[™] balanced design covers the 806-869 MHz frequency range
- 120° horizontal beamwidth and corporate fed design for stable pattern
- · Industry leading -150 dBc PIM rating for low noise characteristics, ideal for trunking systems
- · Electrical downtilt, null fill, or inverted versions are available

The Aurora™ SC family is Sinclair's next generation of collinear antennas. The patent-pending antenna utilizes 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 through the top of the radome. Unbeatable, heavy-duty construction along with the enhanced wind rating, means these antennas can last for years in the most challenging environments. The new Aurora SC 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 model number. Downtilt configurations are subject to various list prices. 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.
SR4BE-HF3P3LDF(D00-PIP)	0°	upright / inverted
SR4BE-HF3P3LDF(D01-PIP)	1°	upright
SR4BE-HF3P3LDF(D02-PIP)	2°	upright
SR4BE-HF3P3LDF(D03-PIP)	3°	upright
SR4BE-HF3P3LDF(D04-PIP)	4°	upright
SR4BE-HF3P3LDF(D05-PIP)	5°	upright
SR4BE-HF3P3LDF(D06-PIP)	6°	upriaht

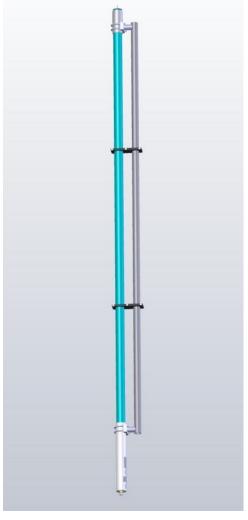
Note:

* The antenna can be mounted either at the top, or to the side of the towers.

Top mount: 2 x Clamp006B 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.

To understand more on installation, see separate CTM (customer technical manual) for details.



Antenna may not appear exactly as shown.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
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Product Specificatio EPR	n Sheet	SR4BE-HF3P3LDF(DXX-PIP)	Issue: 0	Dated: 27-10-23 Dated: 27-10-23



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Electrical Specifications			
Frequency Range	MHz	806 to 869	
Bandwidth	MHz	63	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	14.3 (16.4)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	120	
Vertical beamwidth (typ)	degrees	5	
Average Input Power (max)	W	500	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
PIP(KW, max)		25	
Grounding		All metal parts DC-grounded	

Mechanical Specifications

Mechanical opecinications			
Width	in (mm)	9 (229)	
Depth	in (mm)	5.5 (140)	
Length/ Height	in (mm)	173 (4394)	*2
Base pipe diameter	in (mm)	3.5 (89)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	59 (26.79)	
Weight iced (1/2" ice)	lbs (kg)	90 (40.86)	
Mounting Hardware (Optional)		Clamp006B	*3
Mounting configurations		upright, inverted	*4
Kit for Offset Side Mount (straight tower leg)		SMK-425-A7-T3	*5
Estimated Shipping Weight	lbs (kg)	72 (32.69)	
Shipping dimensions	in (mm)	186x7x16 (4724x178x406)	

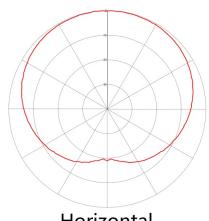
	Environmental Specifications		
	Temperature range	°F (°C)	-40 to +140 (-40 to +60)
	Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	4.1 (0.38)
)	Wind Loading Area (1/2" ice)	ft² (m²)	5.4 (0.5)
)	Rated wind velocity (no ice)	mph (km/h)	135 (217)
	Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
)	Lateral Thrust (100 mph No Ice)	lbs (N)	160 (711.7)
)	Bending moment (100 mph No Ice)	ft-lbs (Nm)	950 (1282.5)
) h	Tip deflection (100 mph No Ice)	degrees	1.5

Notes

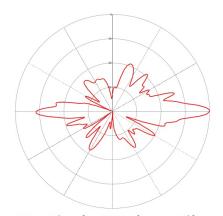
- *1 : Gain variance ±1dB.
- *2: Connector excluded from length.
- *3: Qty: 2. The clamp is determined by tower leg, refer to Sinclair Clamp Selection Guide for details.
- *4 : D00 model upright or inverted, downtilt models upright only.
- *5 : Not included, complies w/ EIA/TIA-329 standard, available separately.

Ordering Information

Clamps must be purchased separately. SMK kit is available for offset side mount. Call for details.



Horizontal



Vertical - 0° downtilt

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Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
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Product Specification Sheet EPR		SR4BE-HF3P3LDF(DXX-PIP)	Issue: 0	Dated: 27-10-23 Dated: 27-10-23