

## Antennas UHF and Tetra Antennas SC396-HL PIM Certified Series

SC396D-HF3LDF(D00-I35-PIP)

Collinear omni, dual port, 6 dBd gain, low PIM, PIP rated, HD, 450-512 MHz

- Aurora<sup>™</sup> dual collinear antenna with 6 dBd gain and PIP rated
- 1.5:1 VSWR to provide excellent coverage
- · Rugged fiberglass radome provides superior environmental protection
- 35 dB port-to-port isolation

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.

Specifically, the SC396D-H is a 6 dBd collinear omni antenna featuring low passive intermod performance with dual-port configuration. Fabricated using durable components, this series of antennas is designed for ease of installation. The foamwrapped brass construction provides a light and durable structure housed in a UV-protected fiberglass radome ensuring superior resistance to harsh environmental conditions. This family is fabricated to meet the most stringent wind and ice loading requirements.

Antenna may not look exactly as shown

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet		SC396D-HF3LDF(D00-I35-PIP)	Issue: 1	Dated: 22-03-24





## **Antennas UHF** and Tetra Antennas SC396-HL PIM Certified Series

Electrical Specifications		
Frequency Range	MHz	450 to 512
Bandwidth	MHz	62
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	6 (8.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	13
Average Input Power (max)	W	500
Number of ports		2
Isolation port to port (min)	dB	35
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
PIP(KW, max)		25
Grounding		All metal parts DC-grounded
Electrical tilt (available)		0, 2, 4, 6 degrees

## Notes

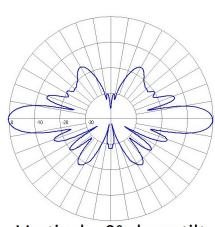
- \*1: ±5% variance
- \*2 : Qty 2
- \*3: Optional, available separately.

Ordering Information

Clamps must be ordered separately.

**Mechanical Specifications** 

Length/ Height	in (mm)	240 (6096)	*1
Diameter	in (mm)	5 (127)	
Base pipe diameter	in (mm)	5 (127)	
Base pipe mounting length	in (mm)	26 (660)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	83 (37.68)	
Weight iced (1/2" ice)	lbs (kg)	147 (66.74)	
Mounting Hardware (Optional)		Clamp006C	*2
Mounting configurations		Universal mount	
Kit for Offset Side Mount (straight tower leg)		SMK-345-A7	*3
Actual shipping weight	lbs (kg)	113 (51.3)	
Shipping dimensions	in (mm)	242x6.5x6.5 (6147x165x165)	
Radome Colour	. ,	Light blue	



Vertical - 0° downtilt

)	Environmental Specifications
)	Temperature range
	Wind Loading Area (Flat Plate Equivalent)
)	Wind Loading Area (1/2" ice)

,	Environmental opcomoditions			
)	Temperature range	°F (°C)	-40 to +140 (-40 to +60)	
	Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	5.2 (0.48)	
)	Wind Loading Area (1/2" ice)	ft² (m²)	6.3 (0.59)	
)	Rated wind velocity (no ice)	mph (km/h)	180 (290)	
)	Rated wind velocity (1/2" radial ice)	mph (km/h)	160 (258)	
1	Lateral Thrust (100 mph No Ice)	lbs (N)	203 (902.9)	
	Bending moment (100 mph No Ice)	ft-lbs (Nm)	1566 (2114.1)	
)	Tip deflection (100 mph No Ice)	degrees	1.5	

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