



A Norsat Company in Norsat



SC466M-HF1LDF(DXX)

Aurora™ collinear omni, 6.5 dBd, Marine grade, 746-869 MHz

- Patent-pending Aurora[™] balanced design covers the 746-869 MHz frequency range
- Industry-Leading -150 dBc PIM rating for low noise characteristics, ideal for trunking sys.
- · Heavy-duty construction with outstanding 240 mph wind rating for harsh environments
- · Hardened marine grade antenna with gel-coated radome and other enhancement

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.

The SC466M antennas are specially hardened for marine applications. The gelcoated radome, the specially treated base pipe and the reinforced internal elements mean this antenna can withstand the severe demands of marine service. Combined with the outstanding wind rating, the SC466M is the go-to antenna for applications where the corrosive atmosphere and harsh weather are a concern.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Null fill versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

· Model Number	Downtilt	Mounting Configuration	CTM
SC466M-HF1LDF(D00) 0°	upright / inverted	006787
SC466M-HF1LDF(D01) 1°	upright / inverted	006787
SC466M-HF1LDF(D02		upright / inverted	006787
SC466M-HF1LDF(D03	s) 3°	upright / inverted	006787
SC466M-HF1LDF(D04) 4°	upright / inverted	006787
SC466M-HF1LDF(D05		upright / inverted	006787
SC466M-HF1LDF(D06	6°	upright / inverted	006787
SC466M-HF1LDF(D07		upright / inverted	006787
SC466M-HF1LDF(D08		upright / inverted	006787
SC466M-HF1LDF(D09		upright / inverted	006787
SC466M-HF1LDF(D10) 10°	upright / inverted	006787

www.sinctech.com

* Extra customizations are available, such as electrical downtilt, PIP rating, etc. Please contact Sinclair for details.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet EPR 018997		SC466M-HF1LDF(DXX)	Issue: 2	Dated: 06-05-22 Dated: 06-05-22

Customer Tech Manual 006788; 006787





Antennas 700-1000 MHz Antennas SC466-HL PIM Certified Series

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Electrical Specifications			
Frequency Range	MHz	746 to 869	
Bandwidth	MHz	123	
Connector		7/16 DIN-Female	
Gain (nominal)	dBd (dBi)	6.5 (8.6)	*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	
Passive intermod. (2x20W, 3rd ord.)	dBc	-150	
Lightning protection		DC ground	

Mechanical	Specifications
Width	

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Width	in (mm)	3.5 (89)	
Depth	in (mm)	3.5 (89)	
Length/ Height	in (mm)	89.6 (2276)	*2
Base pipe diameter	in (mm)	3.5 (89)	
Base pipe mounting length	in (mm)	12 (305)	
Radiating element material		copper	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	21 (9.53)	*3
Weight iced (1/2" ice)	lbs (kg)	37 (16.8)	
Mounting configurations		upright, inverted	*4
Mounting Hardware (Optional)		Clamp006B, Clamp147, or Clamp147M	*5
Kit for Offset Side Mount (straight tower leg)		SMK-225-A3 or SMK-225-A7	
Estimated Shipping Weight	lbs (kg)	30 (13.62)	
Shipping dimensions	in (mm)	102x6x6 (2591x152x152)	

Environmental Specifications

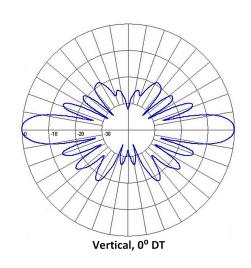
Environmental opecifications		
Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.2 (0.11)
Wind Loading Area (1/2" ice)	ft² (m²)	1.8 (0.17)
Rated wind velocity (no ice)	mph (km/h)	240 (386)
Rated wind velocity (1/2" radial ice)	mph (km/h)	200 (322)
Lateral Thrust (100 mph No Ice)	lbs (N)	46 (204.6)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	107 (144.5)
Tip deflection (100 mph No Ice)	degrees	0.1

Notes

- *1 : Gain variance ±0.5 dB.
- *2 : Length variance ±5%.
- *3: Weight variance ±3 lb.
- *4 : D00 model can be installed upright or inverted, downtilt models upright only.
- *5 : Qty: 2. The clamp is determined by tower leg, refer to Sinclair Clamp Selection Guide for details.

Ordering Information

Clamps must be purchased separately.



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