

**SY3072R-HF1SNF** Dual Yagi antenna, 12.5 dBd gain, radome enclosed, HD, 403-430 MHz

- Stacked Yagi antenna
- Heavy duty fiberglass radome
- 12.5dBd gain

The SY3072R is a heavy duty, radome enclosed 12.5 dBd gain directional antenna, ideally suited to harsh environment applications. This extremely rugged antenna will withstand 175 mph winds, with up to 0.5 in of radial ice.

Preliminary

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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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### Electrical Specifications

Frequency Range	MHz	403 to 420	
Bandwidth	MHz	24	
Connector		N-Female	
Gain (nominal)	dBd (dBi)	12.5 (14.6)	
Input VSWR (max)		1.5:1	
Polarization		vertical or horizontal	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	42	*1
Vertical beamwidth (typ)	degrees	24	*2
Average Power Input (max)	W	250	
Lightning protection		DC ground	
Front-to-back ratio (typ)	dB	15	

### Notes

- \*1 : Vertically stacked antennas with vertical polarization. With horizontal polarization, H-Beamwidth=48°.
- \*2 : Vertically stacked antennas with vertical polarization. With horizontal polarization, V-Beamwidth=21°.
- \*3 : Reflector O.D.

### Mechanical Specifications

Width	in (mm)	16 (406)	*3
Depth	in (mm)	55.5 (1410)	
Length/ Height	in (mm)	31 (787)	
Radiating element material		aluminum	
Radome material		fiberglass	
Reflector material		aluminum	
Weight	lbs (kg)	28 (12.71)	
Weight iced (1/2" ice)	lbs (kg)	35 (15.89)	
Mounting Hardware (Included)		Clamp002B	
Shipping dimensions	in (mm)	18x18x36 (457x457x914)	

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.67 (0.25)
Wind Loading Area (1/2" ice)	ft² (m²)	2.96 (0.27)
Rated wind velocity (no ice)	mph (km/h)	195 (314)
Rated wind velocity (1/2" radial ice)	mph (km/h)	175 (282)
Lateral thrust (100 mph No Ice)	lbs (N)	101 (449.2)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	122 (164.7)

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