

Multi-band Multi-port Transport Antenna Multi-band Antenna SM202 Series

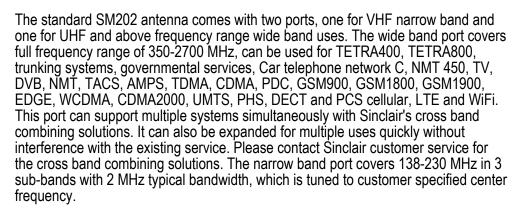
SM202-SF2/SWBSNF(FXXXX)

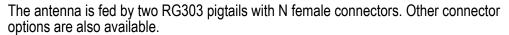
High performance, 2 MHz B.W. for VHF, 174-216 MHz / 350-2700 MHz

- · Covers full 350-2700 MHz and 174-216 MHz with 2 MHz (typ) bandwidth
- A maximum height of 41/4 inches complies with restriction for locomotives and other vehicles
- · Black weather resistant and fire rated radome provides excellent environmental protection

To perform properly, the antenna needs to be installed on a metal surface with minimum size of 36x48 in. Complies with IEC 68 standards

The SM202 series antenna is intended primarily for wireless coverage in transportation applications. This antenna is designed for ease of installation and minimal visual impact. It features a low-profile multiple band radiating element incorporated in a low profile and unobtrusive black housing that is perfect for mounting to a typical metal vehicle rooftop.







• SM202-SF2/SWBSNF(Fxxxx): N female connector, VHF center frequency Fxxxx, no GPS. Fxxxx=F1900 for 190.0 MHz.



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

Sinclair's commitment to product leadership may result in improvement or change to this product

Copyright © Sinclair Technologies





Multi-band Multi-port Transport Antenna Multi-band Antenna SM202 Series

A Norsat Company in Norsat

Electrical Specifications			
Frequency Range 1 (F1)	MHz	174 to 216	
Bandwidth (F1)	MHz	2	*1
Frequency Range 2 (F2)	MHz	350 to 2700	
Bandwidth (F2)	MHz	2350	*2
Connector		N-Female	*3
Gain (nominal)	dBd (dBi)	unity (2.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Average Power Input (max)	W	200	*4
Lightning protection		DC ground	
GPS Center Frequency	MHz	1575.42	
GPS Power Gain (typ)	dB	28	
GPS Supply Voltage Range	VDC	3 to 5	
GPS Current Consumption		12 mA typical	
GPS Output Impedance	Ω	50	
GPS Noise Figure (max)	dB	2	
GPS VSWR		2.0 Maximum	

Notes

- *1:1 MHz on low side of band, 2.5 on the high side.
- *2 : VSWR=1.5:1(typ) for 380-2700MHz; VSWR=2:1(typ) for 360-380 MHz; VSWR=2.5:1(typ) for 350-360 MHz.
- *3: Other options available such as N male, BNC male and female, and TNC male and female.
- *4 : Per port
- *5 : Maximum footprint
- *6: Maximum footprint
- *7: RG-174 cable with SMA plug

Ordering Information

Please specify VHF center frequency, and connector type at time of order.

Mechanical Specifications

moonamoar opoomoanomo			
Width	in (mm)	11.5 (292)	*5
Depth	in (mm)	20.88 (530)	*6
Height	in (mm) 4 (102)		
Radome material		UV stabilized ABS	
Weight	lbs (kg)	7.21 (3.27)	
Actual shipping weight	lbs (kg)	11.2 (5.08)	
Shipping dimensions	in (mm)	26x19x7 (660x483x178)	
GPS Pigtail Type	` '	16.4	*7
Ground Plane (min)	in (mm)	36x48	
Radome Colour	, , ,	Black	

Environmental Specifications

Environmental opecinications			
5	Horizontal Wind Resistance		5.03 lb @ 100 mph
	Temperature range	°F (°C)	-40 to +140 (-40 to +60)
5	Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.2 (0.02)
5	GPS Operating Temperature	°F (°C)	-22 to 140 (-30 to 60)

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet EPR 018608		SM202-SF2/SWBSNF(FXXXX)	Issue: 6	Dated: 09-11-16 Dated: 30-03-15