

SM202-SF2/SWBSNF(FXXXX-GPS)

Low profile, dual band, GPS, 174-216/350-2700 MHz

- · Covers full 350-2700 MHz and 174-216 MHz with 2 MHz (typ) bandwidth
- · Includes GPS receive antenna with additional RG174 pigtail and SMA plug
- A maximum height of 41/4 inches complies with restriction for locomotives and other vehicles

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.

The standard SM202 antenna comes with two ports, one for VHF narrow band and one for UHF and above frequency range wide band uses. The wide band port covers full frequency range of 350-2700 MHz, can be used for TETRA400, TETRA800, trunking systems, governmental services, Car telephone network C, NMT 450, TV, DVB, NMT, TACS, AMPS, TDMA, CDMA, PDC, GSM900, GSM1800, GSM1900, EDGE, WCDMA, CDMA2000, UMTS, PHS, DECT and PCS cellular, LTE and WiFi. This port can support multiple systems simultaneously with Sinclair's cross band combining solutions. It can also be expanded for multiple uses quickly without interference with the existing service. Please contact Sinclair customer service for the cross band combining solutions. The narrow band port covers 138-230 MHz in 3 sub-bands with 2 MHz typical bandwidth, which is tuned to customer specified center frequency.

The antenna is fed by two RG303 pigtails with N female connectors. Other connector options are also available.

Includes built-in GPS receiving antenna with additional RG174 pigtail and SMA plug.

Application Notes

- Always check the label on the pigtail to make the correct connection.
- SM202-SF2/SWBSNF(Fxxxx-GPS): N female connector, VHF center frequency Fxxxx, and GPS. Fxxxx=F1900 for 190.0 MHz.

www.sinctech.com

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Product Specification Sheet EPR 018609		SM202-SF2/SWBSNF(FXXXX-GPS)	Issue: 5	Dated: 09-11-16 Dated: 30-03-15
Customer Tech Manual 006229		Sinclair's commitment to product leadership may result in im	provement or change to this product	

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

Electrical Specifications	

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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	

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

Ordering Information

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

Mechanical Specifications

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)	
Ground Plane (min)	in (mm)	36x48	
Radome Colour Black		Black	

Environmental Specifications

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

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