

SM601-SWBS(XX)(CWH) TRANSeon™ transport antenna, low profile, 694-2700 MHz

- Wideband LTE port covers all bands from 694 to 2700 MHz with high RF efficiency
- 1.95 inches height low profile and one 3/4" hole mount for easy installation
- LSZH and fire retardant cable satisfies the most stringent safety standards
- Rugged design for long life

TRANSeon family is Sinclair's next generation transport/mobile antenna which features high RF performance and rugged design. The SM601-SWBS(XX)(CWH) series is a single port antenna that covers all the bands for 2G, 2.5G, 3G cellular, LTE 700-2600 MHz. Rugged design with UV resistant radome and IP67 rating for reliability and long life. The compact size and low profile allow it to blend easily with any environment and ideal for vehicle roof-top mounting. It can be conveniently mounted on a vehicle rooftop by drilling only one hole.



When ordering, please refer to below chart for detailed model# and connector configurations. Other options are also available, please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	LTE port	Pigtail
SM601-SWBSSM(CWH)	SMA(m)	30cm
SM601-SWBNSF(CWH)	N(f)	30cm
SM601-SWBNSQ(CWH)	QMA(f)	30cm

When longer pigtail is needed, below extension cable is available upon request. Connector and cable length are fully customizable, call for details.

	Model Number	Cable	Length (nominal)	Connector Ant-end Radio-end
LTE port:	AEC-11-500-SFSM	EF142	5m/17ft	SMA(f) + SMA(m)
LTE port:	AEC-11-500-SFNF	EF142	5m/17ft	SMA(f) + N(f)
LTE port:	AEC-11-500-SFQF	EF142	5m/17ft	SMA(f) + QMA(f)
LTE port:	AEC-01-500-SFSM	RG58	5m/17ft	SMA(f) + SMA(m)
LTE port:	AEC-01-500-SFNF	RG58	5m/17ft	SMA(f) + N(f)
LTE port:	AEC-01-500-SFQF	RG58	5m/17ft	SMA(f) + QMA(f)

Note:
When mounted on a metal plane, such as vehicle rooftop, no ground plate is required. Otherwise a no less than 14 inches diameter grounding plane is needed.

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

Electrical Specifications

Frequency Range	MHz	694 to 2700	
Bandwidth	MHz	2006	*1
Connector		Various options avail.	*2
Gain (typical)	dBd (dBi)	4-7 dBi	*3
Input VSWR (max)		1.5:1	*4
Polarization		vertical	*5
Impedance	Ω	50	*6
Pattern		Omni-directional	
Average Input Power (max)	W	100	*7
Lightning protection		DC ground	

Notes

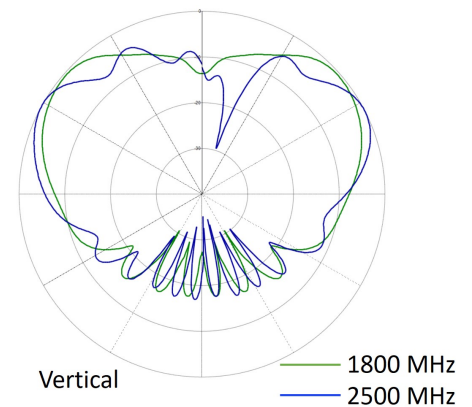
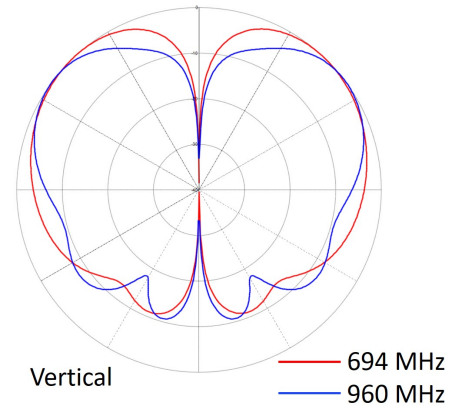
- *1 : Average efficiency >70%
- *2 : See previous page for details.
- *3 : On 14" metal ground plane.
- *4 : VSWR max 1.8:1 @ 694-746MHz
- *5 : RF port
- *6 : RF port
- *7 : RF port
- *8 : Flammability: EN 60332-1-2, UL 1581 § 1100, EN 50305, 9.1.2
- *9 : After mounted following installation manual.

Mechanical Specifications

Width	in (mm)	5.75 (146)	
Depth	in (mm)	5.75 (146)	
Height	in (mm)	1.95 (50)	
Cable - LTE port		EF142, LSZH, fire retardant	*8
Radome material		UV stabilized ABS, UL94 HB	
Base plate material		aluminum	
Weight	lbs (kg)	0.8 (0.36)	
Actual shipping weight	lbs (kg)	1.27 (0.58)	
Shipping dimensions	in (mm)	10.3x7.3x5.5 (262x185x140)	
Ground Plane (min)	in (mm)	14 x 14	
Radome Colour		White	
Ingress protection		IP67	*9

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.06 (0.01)
Wind Loading Area (1/2" ice)	ft² (m²)	0.07 (0.01)
Lateral Thrust (100 mph No Ice)	lbs (N)	2.2 (9.8)
GPS Operating Temperature	°F (°C)	-22 to 140 (-30 to 60)



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