

SM300

High performance, low profile, universal transportation antenna, 350-2500 MHz

- Covers full frequency band from 350 MHz to 2500 MHz by a single port
- Maximum height 3.3 inches
- Excellent design for waterproofing and vibration

The SM300 series of antennas 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 small and unobtrusive housing that is perfect for mounting to a typical rooftop. It covers all the bands 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, wireless LAN systems.

The SM300 comes standard with Grey radome. Black and White are also available.



Application Notes

- Grounding area must be at least 24 inches in diameter. Please install the antenna following the instruction.

| Model | Description | Pattern |
|-----------------------------------|---|------------------|
| SM300-SWBSNF(CGR) | Unity gain, low profile, universal transportation antenna, 350-2500 MHz | Omni-directional |

| 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) 1223 42 03 03 | 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 | | SM300 | | Dated: 05-02-10 |

SM300-SWBSNF(CGR)

Electrical Specifications

| | |
|------------------------------|------------------|
| Frequency Range, MHz | 350 to 2500 |
| 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 |
| Lightning protection | DC ground |
| Bandwidth, MHz | 2150 |

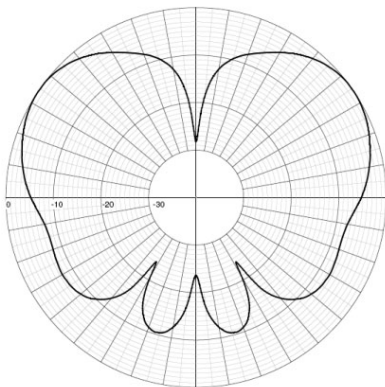
Mechanical Specifications

| | |
|------------------------------|-----------------------|
| Connector | N (female) |
| Length/ Height, in (mm) | 3.3 (84) |
| Width, in (mm) | 8 (203) |
| Radome material | UV protected ABS |
| Weight, lbs (kg) | 2.8 (1.2) |
| Shipping dimensions, in (mm) | 12x12x6 (305x305x152) |
| Length, in (mm) | 8 (203) |
| Ground Plane, in (mm) | 24x24x0.1 (610x610x3) |

Environmental Specifications

| | |
|----------------------------|--------------------------|
| Temperature range, °F (°C) | -40 to +140 (-40 to +60) |
|----------------------------|--------------------------|

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
Vertical
Relative Gain - 10 dB per Division

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