

SM300-SWBSNF(CWH-GPS) Low profile, 0 dBd, universal transportation, GPS, 350-2700 MHz

- Covers full frequency band from 350 MHz to 2700 MHz by a single port
- VSWR=1.5:1 for 380-2700 MHz;VSWR=2:1 for 360-380 MHz;VSWR=2.5:1 for 350-360 MHz
- Includes GPS receiving antenna with an additional RG174 pigtail and SMA plug
- Excellent design for waterproofing and vibration and an overall height of 3.3 inches

Grounding area must be at least 24 inches in diameter.

The SM300(GPS) 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, PCS cellular, wireless LAN systems, LTE 700 MHz and LTE 2600 MHz.

The SM300(GPS) series include a GPS receiving antenna with an additional RG174 pigtail and SMA plug.



Antenna may not appear exactly as picture.

Application Notes

- Grounding area must be at least 24 inches in diameter. Please follow the antenna installation instructions provided.

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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 | 350 to 2700 | |
| Bandwidth | MHz | 2350 | |
| Connector | | N-Female | |
| Gain (nominal) | dBd (dBi) | unity (2.1) | |
| Input VSWR (max) | | 1.5:1 | *1 |
| Polarization | | vertical | |
| Impedance | Ω | 50 | |
| Pattern | | Omni- directional | |
| Average Input Power (max) | W | 200 | *2 |
| Lightning protection | | DC ground | |
| GPS Center Frequency | MHz | 1575.42 | |
| GPS Output Impedance | Ω | 50 | |
| GPS VSWR (max) | | 2.0 Maximum | |
| GPS Power Gain (typ) | dB | 28 | |
| GPS Supply Voltage Range | VDC | 3.2 to 5 | |
| GPS Current Consumption (typ) | | 12 mA typical at 3 to 5 VDC | |
| GPS Noise Figure (max) | dB | 2 | |
| GPS Pigtail Type | | 5 meter RG-174 cable with SMA plug | |

Notes

- *1 : VSWR=1.5:1(typ)for 380-2700 MHz; VSWR=2:1(typ) for 360-380 MHz; VSWR=3.0:1(maxp) for 350-360 MHz.
- *2 : All channels
- *3 : Including mounting flange

Mechanical Specifications

| | | | |
|------------------------|----------|-----------------------|----|
| Length | in (mm) | 8 (203) | |
| Height | in (mm) | 3.3 (84) | |
| Radome Diameter | in (mm) | 7.5 (191) | |
| Overall Diameter | in (mm) | 9.75 (248) | *3 |
| Radome material | | UV stabilized ABS | |
| Weight | lbs (kg) | 2.75 (1.25) | |
| Actual shipping weight | lbs (kg) | 4.75 (2.16) | |
| Shipping dimensions | in (mm) | 15x11x6 (381x279x152) | |
| Ground Plane (min) | in (mm) | 24x24 | |
| Radome Colour | | White | |

Environmental Specifications

| | | |
|---|----------|--------------------------|
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²) | 0.12 (0.01) |
| Horizontal Wind Resistance | | 4.33 lb at 100 mph |
| GPS Operating Temperature | °F (°C) | -22 to 140 (-30 to 60) |

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