

Body/Surface Mount Cellular/Mobitex/ISM/Nextel



SM3 High Gain
Antenna



SM Low Profile Antenna



RM3 Body Mount Antenna

- Mounts easily to roof, trunk or bulkhead
- Unity gain, 3 dBi & 5 dBi omni configuration
- Rugged designs, stud mounts to 3/4" (19 mm) or 5/8" (16 mm) hole
- "O" ring or gasket seal provides watertight use

This new series complements our 800/900 MHz band product line. The body/surface mount antennas can be mounted to any vehicle, container or bulkhead. The rugged style is excellent for industrial applications, yet attractive for consumer use.

Antenna performance on the SM3 series is 5 dBi, and requires no ground plane. The antenna can be mounted on fiberglass or plastic. It requires a 3/4" hole (19 mm) for mounting. It has a weatherproof gasket for sealing. It is supplied with 15 feet (4.5 meters) of RG-58 cable, and TNC connector as standard. This series can also be outfitted with a GPS module for dual band GPS tracking applications.

The low profile SM Series is a unity gain device and requires a ground plane for best performance. The radome is durable polycarbonate, available in white, grey or black. It uses a gasket for weathersealing. Outfitted with 15 feet of RG-58 (4.5 meters) and male TNC, it requires a 5/8" hole (16 mm) for mounting. This series can also be outfitted with a GPS module for mobile tracking.

The RM3 Series antenna is available in black radome (white optional). These are 3 dBi gain broadband antennas. A ground plane is recommended for best performance. This model will provide higher efficiency than the low profile SM Series. Broadband, these antennas will operate over the entire 800 - 1000 MHz band. They require a 5/8" hole (16 mm) for mounting and is outfitted with a captured "O" ring for weathersealing. Standard cable supplied is 1 foot of RG-58 (305 mm) and TNC connector standard, other configurations are available.

All antennas can be outfitted with different cable lengths, and connectors, or jumper cables.

Model Number

Model	Frequency	Description
SM-900	824-894 MHz	Cellular Low Profile
SM-925	870-960 MHz	ISM/Mobitex Low Profile
SM-837	806-870 MHz	Nextel Low Profile
RM3-900	800-1000 MHz	3 dBi Medium Gain
SM3-900	824-894 MHz	Cellular 5 dBi High Gain
SM3-925	870-960 MHz	ISM 5 dBi High Gain
SM3-837	806-870 MHz	Nextel 5 dBi High Gain

Specifications

Frequency:	See above
Gain:	Unity, 3 dBi or 5 dBi, see above
VSWR:	2:1 max over range
Operating Temp:	-40° to +85° C
Nominal Impedance:	50 ohms
Maximum Power:	10 watts
Antenna Size/Mount:	
SM3 Series	2.65"D x 15"H, 3/4" hole required (67 mm x 381 mm, 19 mm hole)
RM3 Series	1.75"D x 3"H, 5/8" hole required (45 mm x 76 mm, 16 mm hole)
SM Low Profile	4.5"D x .95"H, 5/8" hole required (114 mm x 24 mm, 16 mm hole)

Case Material:	Polycarbonate, ABS on RM3
Mounting Depth:	
SM3 Series	Mount to 3/16" metal (4.7 mm)
RM3 Series	Mount to 1/2" metal (12.7 mm)
SM Series	Mount to 7/32" metal (5.3 mm)

Hardware Supplied: Locknut and gasket or O ring
Cable:

SM/SM3 Series	15 ft RG-58 (4.5 meters)
RM3-900	1 ft RG-58 (305 mm)

Connector: TNC male
Other connector & cable configurations available, please consult factory for details.