

## Surface Mount, Low Profile Iridium & GPS



Iridium & GPS  
Surface Mount Antenna

- Mobile Mark's Iridium module provides 3.5 dBi gain over entire band
- Combination Iridium & GPS ideal for long distance truckers & military vehicles
- Antenna tested to Industrial & Military specs for Shock and Vibration
- Mounts easily to roof, trunk or bulkhead

Mobile Mark's Iridium & GPS combination antenna has been certified by Iridium Communications, Inc. for commercial use in connection with the Iridium Communications systems.

The antenna is ideal for long distance truckers, military vehicles, mining operations, or freight trains.

The SM-1620/1575 Series consists of both an Iridium antenna module and a GPS antenna module. The Iridium antenna module provides 3.5 dBi gain over the entire 1616-1626.5 MHz range and is fed with an RG-58 cable. The GPS antenna module provides LNA 26 dB and 5 dBi nominal RHCP at 1575 MHz and is fed with an RG-174 cable.

This low profile combination antenna measures 4.5" D x .95" H (114 mm x 24 mm). It will mount to surfaces that are up to 7/32-inches (5.3 mm) thick. A metal groundplane is required for optimal performance.

The antennas are supplied with a sealing gasket and all mounting hardware. The connectors are typically SMA Plug (Male) but other options are available.

**Model Configurator**

SM-1620/1575 -  -  -

Cable/Connector 1

Cable/Connector 2

Color

Cable length (in inches)

Example: SM-1620/1575-1A2C-WHT-120

Color Options:  
BLK-Black, WHT-White, GRY-Grey

<u>Freq. Options:</u>	<u>Cable Options:</u>	<u>Connector Options:</u>
<u>Code</u> <u>Freq (MHz)</u>	<u>Code</u> <u>Cable</u>	<u>Code</u> <u>Connector</u>
1620 1616-1626.5	1 RG-58	A TNC
1575 1575.42 +/- 2	2 RG-174	B Mini UHF
	3 RF-195	C SMA
		D SMB

(Other Configurations available.)

Specifications			
<b>Frequency:</b> Iridium GPS Iridium gain: GPS gain: VSWR: Noise Figure: Nominal Impedance: Maximum Power: Amplifier Bias: Current: Cable: Cable 1 (Iridium) Cable 2 (GPS)	1616-1626.5 MHz 1575.42 +/- 2 MHz 3.5 dBi, RHCP 26 dB LNA 5 dBi nominal RHCP Antenna <1.5:1 max over range 2.0 dB max, 1.7 dB typical 50 ohms 10 Watts 2.7 to 5 VDC 20 mA max, 10 mA typical RG-58, 10 ft (3 meters) RG-174, 10 ft (3 meters)	<b>Case:</b> <b>Case Material:</b>  <b>Stud Mounting:</b>  <b>Hardware:</b> <b>Connector:</b>  <b>Operating Temp:</b> <b>Shock &amp; Vibration:</b>  <b>Water Ingress:</b>	4.5"D x .95"H (114mm x 24 mm) White or Black: ASA; Grey: ABS  5/8" dia x 18/32" long (16 mm x 14 mm) thread for 7/32" thick (5.3 mm) metal  Locknut and gasket included SMA plug (male), others available  -40° to +85° C EN 61373, IEEE 1478, MIL-810G TIA-329.2-C IPx5