



Surface Mount



Magnet Mount

High Gain, DSRC with GPS Surface or Magnet Mount

- Ideal for ITS/Smart Highway Trials
- Available in either Surface-mount or Mag-mount
- High Gain Performance on DSRC, 6 dBi

Mobile Mark's high gain DSRC antennas are specifically designed for ITS (Intelligent Transportation Systems), and used for Smart Highway trials and Vehicle-to-Vehicle (V2V) in ITS trials.

These antennas operate on the DSRC (Dedicated Short Range Communications) band, with the frequency covering 5850-5930 MHz.

The SM6-5900/1575 antenna can be mounted to a vehicle's metal surface or any bulkhead through a 3/4" hole (19mm). The MAG6-5900/1575 is mounted with a magnet mount. These antennas are provided with two cables, RF-195 for DSRC and RG-174 for GPS.

The SM6-5900/1575 antenna measures 5.3" (135mm) from the tip of the Radome Cap to the bottom of the antenna base, while the MAG6-5900/1575 measures 5.5" (140mm). Standard connectors are SMA Plug (Male) on both cables.

The antenna radomes are available in black, and the case material is made out of polycarbonate.

The antennas can handle a maximum power of 10 Watts. The elevation beamwidth is 30 degrees, and the azimuth beamwidth is 360 degrees.

Model #	Mounting
SM6-5900/1575-3C2C-BLK-180	Surface Mount
MAG6-5900/1575-3C2C-BLK-120	Magnet Mount
Optional combination GPS/Glonass available	
Available in Black Only	

Specifications			
Frequency:		Case Material:	Polycarbonate
DSRC:	5850-5930 MHz	SM6 Dimensions:	5.3" (135 mm) tall, base is 2 5/8" D (67 mm)
GPS:	1575 MHz	SM6 Mounting (Stud):	3/4" dia x 1/2" long thread (19 mm x 12 mm) for 3/16" thick (4.8 mm)
GLONASS (Optional):	1612 MHz	MAG6 Dimensions:	5.5 (140mm) tall, base is 2 5/8" D (67mm)
DSRC Gain:	6 dBi	MAG6 Mounting:	Metal Surface
VSWR:	2:1 max over range	Connector:	SMA/SMA Plug (Male) standard
Nominal Impedance:	50 ohms	Shock & Vibration:	EN 61373, TIA-329.2-C
Maximum Power:	10 Watts	Water Ingress:	IPx5
GPS Gain:	1575 +/- 2 MHz, LNA 26 dB 5 dBi nominal RHCP		
Amplifier Bias:	3.3 to 5 VDC		
Current:	20 mA max, 10 mA typical		
Elevation Beamwidth:	30 degrees (peak at horizon)		
Azimuth Beamwidth:	360 degrees		
Cable:			
GPS	RG-174		
DSRC	RF-195		
SM6 Cable Length:	15 Feet (4.5m)		
MAG6 Cable Length:	10 Feet (4m)		