

On-Window GPS Antennas (Patented) 800/900 Cellular/GPS, Nextel/ISM/GPS



3 dB Dual Band
with outside (left) &
inside (right)

- High performance dual band operates on Cellular with 26 dB active GPS gain
- Dual band On-Window SMR/Nextel or GSM & 26 dB GPS also available
- Dual & single band models mount easily to window with double sided tape
- Separate low profile cabling for easy headliner installation & routing

This antenna represents a union of the latest 800/900 Band and GPS technologies. This combination is perfect for new generation location services.

The 800/900 band design outperforms other antennas of similar size, without sacrificing GPS sensitivity. The circuit, with a 3 1/2" whip (89 mm), provides up to 3 dBi gain. GPS performance is 26 dB, with 5 dBi antenna gain.

The GPS circuitry has a low 2.0 dB max noise figure with excellent filter characteristics. No interaction occurs between the bands.

The GPS antenna is mounted within the inside coupling box. This places the GPS element directly against the glass of the vehicle. Power (3.3 or 5 VDC) and signal is applied through the same cabling directly to the GPS antenna. Cables exit at the top of the inside coupling box, allowing direct entry into the headliner.

Model Numbers

Model	Description
MM3-900/1575	3 dB 850 Cellular & GPS
MM3-837/1575	3 dB Nextel/Low SMR & GPS
MM3-925/1575	3 dB High SMR/GSM/ISM & GPS

Please specify connector for the Cellular/SMR connection and also GPS. All models are dual voltage 3.3/5 VDC. Consult factory for other configurations.

These antennas can be mounted on a front or rear windshield. The 800/900 cable is 15 ft (4.5 meters) of RG-58 and can be terminated with a TNC, SMA or Mini-UHF connector, prices vary. The GPS cable standard is 15 ft (4.5 meters) of RG-174 and commonly terminated with SMB or SMA plug.

Other connectors can be provided upon request, please consult factory for details.

Specifications

Frequency:		Current:	20 mA max, 10 mA typical
Cellular (AMPS)	824-894 MHz	Cable:	
Low SMR	806-870 MHz	Cellular/SMR	15 ft (4.5 meters) RG-58
High SMR/GSM	870-960 MHz (EU GSM)	GPS	15 ft (4.5 meters) RG-174
GPS	1575.42 +/- 2 MHz	External Mount:	ABS plastic, 2" (51 mm) diameter
Cellular/SMR Gain:	3 dBi	Internal Mount:	ABS 2"H x 3.25" W coupling box (51 mm x 83 mm)
GPS Gain:	26 dB Amplifier, 5 dBi Antenna	Cellular Whip:	Flexible radiator 3.5" (89mm)
VSWR:	2:1 max over range	Whip Connection:	Locking ball mechanism
Noise Figure:	2.0 dB max, 1.7 dB typical	Cable Attachment:	Integral to coupling box, top exit
Operating Temp:	-40° to +85° C	Connector:	Specify at time of order for GPS & Cellular
Nominal Impedance:	50 ohms		
Maximum Power:	10 Watts Cellular/SMR		
Amplifier Bias:	Dual 3.3/5 VDC +/- 10%		