



These dual band configurations combine a UHF antenna along with a GPS satellite antenna into one convenient package. This saves on space, looks and installation time without sacrificing performance.

These antennas can be mounted to a vehicle's metal surface or any bulkhead through a 3/4" hole (19 mm). The antennas provide completely independent dual band operation.

GPS performance is 26 dB LNA, with 5 dBi nominal antenna gain. The GPS circuitry has a low noise figure (2.0 dB max) with excellent filter characteristics. No interaction occurs between the bands.

These models have passed the IPx5 water ingress rating. This rating along with a flexible whip allows these antennas to go through car washes without the need to remove either the whip or the base of the antenna from the vehicle.

The DC power required for the GPS amplifier (2.7-5 VDC) and signal is applied through the same cabling directly to the GPS circuit.

## Surface Mount Antennas UHF & GPS

- Three UHF models available: 400, 425 or 450 MHz bands
- Thru-hole mount design insures a strong secure installation
- IPx5 water ingress rating; no need to remove for car washes
- High performance GPS operates with 26 dB active GPS gain

The GPS cable is 15 feet of RG-174 cable (4.5 meters) and the connector is an SMA Plug (Male). The UHF bands are outfitted with 15 feet of RG-58 (4.5 meters) and SMA Plug (Male) connector.

Other connectors and configurations are available upon request.

Trunk Lid and Mirror Mount kit are provided for additional mounting options.

Model #	Description			
SMF-400/1575-1C-BLK-180 SMF-425/1575-1C-BLK-180	UHF & GPS Antenna UHF & GPS Antenna			
SMF-450/1575-1C-BLK-180	UHF & GPS Antenna			
Add "-TM" for Vehicle Trunk Lid Mount				
Available in Black Only				
SM-MM	Mirror Mount option			

Specifications			
Frequency: 400 MHz UHF 425 MHz UHF 450 MHz UHF GPS, all Models Gain: VSWR: GPS Gain: Noise Figure:	380-430 MHz, factory set 400-450 MHz, factory set 430-512 MHz, factory set 1575.42 +/- 2 MHz Unity 2:1 max over range 26 dB LNA 5 dBi nominal RHCP Antenna 2.0 dB max, 1.7 dB typical	Dimensions: 400 MHz UHF 425 MHz UHF 450 MHz UHF Base Dimension: Stud Mounting:	6 1/4" height (158.7 mm) 6" height (152.4 mm) 5 3/4" height (146.0 mm) 1" H x 2 5/8" D (25mm x 67 mm) 3/4" dia x1/2" long (19mm x13mm) for 3/16" thick (4.7 mm) surface
Nominal Impedance: Maximum Power:  Amplifier Bias:  Current:	50 ohms 30 Watts on UHF  2.7 to 5 VDC  20 mA max, 10 mA typical	GPS Cable: UHF Cable: Cable Attachment: Connector:	RG-174, 15 feet (4.5 meters) RG-58, 15 feet (4.5 meters) Integral to device, bottom exit SMA Plug (Male) standard
Operating Temp: Case Material:	-40° to +85° C Polycarbonate, black	Shock & Vibration: Water Ingress:	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C IPx5