

## Surface Mount Antennas 806-1990 MHz & GPS



- Mounts to vehicle roof/trunk
- High performance GPS with 26 dB active amplifier
- Secure & low profile only 5" high (127 mm)
- Quad-Band for popular combinations

This antenna provides a high level of integration for Fleet Management & AVL tracking applications in a permanent thru-hole mount. The Quad-band Surface mount provides operation on all Cellular and PCS bands worldwide along with GPS. The GPS antenna has an active amplifier for maximum satellite reception.

This antenna operates on a range of wireless networks, for compatibility around the world. With advanced designs, there is no interaction between bands. This unit requires drilling a 3/4" hole (19 mm) for mounting. Underside access is required for securing.

A separate connector is provided for the GPS interface and the 925/1800 MHz interface. The antennas are provided with 15 foot (4.5 meter) cables (RG-58 for Cell/PCS, RG-174 for GPS). Standard connectors are SMA/SMB for GPS, and SMA for cellular.

GPS performance is 26 dB LNA, with 5 dBi nominal RHCP antenna gain. The GPS circuit has a low noise figure (2.0 dB max) with excellent filter characteristics. Power for the GPS amplifier signal is applied through the same cabling directly to the GPS circuit.

**Model Configurator**

SMV-UCE------

Cable/Connector 1

Cable/Connector 2

Color

Cable Length in Inches (eg. 12 or 180)

Example: SMV-UCE-1A2C-BLK-180  
MAGV-UCE-1A2C-BLK-180

Cable Options:		Connector Options:		Color Options:	
Code	Cable	Code	Connector	Code	Color
1	RG-58	A	TNC	WHT	White
2	RG-174	B	Mini UHF	BLK	Black
3	RF-195	C	SMA		
		D	SMB		
		E	MCX		

(Other Configurations available.)

Specifications	
Frequency:	806-960, 1710-1990 MHz & GPS
Cellular / PCS Gain:	2 dBi (804-960), Unity (1710-1990)
GPS Gain:	26 dB, LNA 5 dBi nominal RHCP Antenna
VSWR:	2:1 max over range
Noise Figure:	2.0 dB max, 1.7 dB typical
Operating Temp:	-40° to +80° C
Nominal Impedance:	50 ohms
Maximum Power:	10 Watts (Cell/PCS Band)
Amplifier Bias:	2.7 to 5 VDC
Current:	20 mA max, 10 mA typical
Whip:	304 Stainless Steel
Base Material:	Polycarbonate
Cable:	GPS PCS/DCS
Dimensions:	RG-174, 15 feet (4.5 meters) RG-58, 15 feet (4.5 meters) 5" height (127 mm) Base is 1" H x 2 5/8" D (25 mm x 67 mm)
Stud Mounting:	3/4" dia x 1/2" long (19 mm x 13 mm) for 3/16" thick (4.7 mm) surface Optional Mirror & Trunk Mount
Connector:	SMA/SMA standard
Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C
Water Ingress:	IPx5