



Surface Mount Antennas 806-1990 MHz & GPS

- High performance GPS with 26 dB active amplifier
- Secure & low profile only 5" high (12.7 cm)
- 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 (1.9 cm) 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 m) 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:

Code	Cable
1	RG-58
2	RG-174
3	LL-195

Connector Options:

Code	Connector
A	TNC
B	Mini UHF
C	SMA
D	SMB
E	MCX

Color Options:

Code	Color
WHT	White
BLK	Black

(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 Ohm
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 m) RG-58, 15 feet (4.5 m) 5" height (12.7 cm) Base is 1" H x 2 5/8" D (2.5 cm x 6.7 cm)
Stud Mounting:	3/4" dia x 1/2" long (1.9 cm x 1.3 cm) for 3/16" thick (4.7 mm) surface
Connector:	Optional Mirror & Trunk Mount SMA/SMA standard
Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G, TIA-329.2-C
Water Ingress:	IPx5