



Quad-Band Surface Mount



Mirror Mount



Trunk Lip Mount



Magnetic Mount (Model MAGV-*)

Surface Mount AVL^(Pat. Pnd.)

Quad-Band for GSM/CDMA, Nextel & GPS

- Mounts to vehicle roof/trunk
- High performance GPS with 26 dB active amplifier, Dual 3.3/5 VDC Bias
- 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 Cellular and PCS bands 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. Under-side access is required for securing.

A separate connector is provided for the GPS interface and the 900/1800 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 TNC or SMA for cellular. Other connectors and configurations may be available, please consult factory.

GPS performance is 26 dB, with 5 dBi 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. The unit will operate with either a 3 or 5 VDC bias.

Antenna Model Configurator

SMV-UCE -

example - SMV-UCE-1A2C
Mag Mount - MAGV-UCE-1A2C

Freq & GPS Voltage

Code	Description
UCE	Operation on worldwide frequencies including GSM/CDMA, 902-928 MHz ISM, Skytel.

Notes: All models are dual voltage 3.3/5 VDC
Substitute "MAGV" for Mag mount model

Cellular Cable & Connector

Code	Description
1A	RG-58 & TNC
1B	RG-58 & MiniUHF
1C	RG-58 & SMA
1H	RG-58 & Fakra
1J	RG-58 & Rev Pol SMA
1L	RG-58 & SMC

GPS Cable & Connector

Code	Description
2C	RG-174 & SMA
2D	RG-174 & SMB
2E	RG-174 & MCX
2F	RG-174 & MMCX
2H	RG-174 & Fakra
2L	RG-174 & SMC

Specifications

Frequency:		Current:	20 mA max, 10 mA typical
GPS	1575.42 +/- 2 MHz	Cable:	
GSM/CDMA	824-894 MHz/1850-1990 MHz	GPS	RG-174, 15 feet (4.5 meters)
EU GSM	870-960 MHz/1710-1880 MHz	PCS/DCS	RG-58, 15 feet (4.5 meters)
ISM 915	870-960 MHz	Whip:	304 Stainless Steel
Nextel	804-870 MHz	Dimensions:	5" height (127 mm)
Cellular / PCS Gain:	2 dBi Cell, Unity on PCS		Base is 1" H x 2 5/8" D
GPS Gain:	26 dB, 5 dBi Antenna	Stud Mounting:	(25 mm x 67 mm)
VSWR:	2:1 max over range		3/4" dia x 1/2" long (19mmx13 mm)
Noise Figure:	2.0 dB max, 1.7 dB typical		for 3/16" thick (4.7 mm) surface
Operating Temp:	-40° to +85° C	MAG Mount	Optional Mirror & Trunk Mount
Nominal Impedance:	50 ohms	Connector:	Use series "MAGV"
Maximum Power:	10 Watts (Cell/PCS Band)		See above
Amplifier Bias:	Dual 3.3/5 VDC +/- 10% (GPS)		