



Tri-Band Magnet Mount

Mag Mount AVL Antenna (Pat. Pnd.) GSM/CDMA, ISM, Nextel & GPS

- Mounts easily to roof/trunk of vehicle
- High performance GPS with 26 dB active amplifier, 3.3 or 5 VDC Bias
- Secure & low profile only 3.5" high (89 mm)
- Multiband for all popular combinations

This antenna provides a high level of integration for AVL/tracking applications in a portable package. The TriBand mag provides operation on all popular Cellular and PCS (CDMA & GSM) bands along with GPS. The Mag Mount style can be moved from vehicle to vehicle with ease. The GPS antenna has an active amplifier for maximum satellite reception.

One model operates on all popular Cellular & Personal Network combinations, for compatibility around the world. With advanced designs, there is no interaction between bands.

A separate cable/connector is provided for the GPS interface and the radio interface. The antennas are provided with 10 feet (3 meters) of dual bonded RG-174 cables. Standard connectors are SMA for GPS, and TNC for cellular. All connectors are male/plug. 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 GPS amplifier is dual 3.3/5 VDC.

Antenna Model Configurator

MG0- - example - MG0-U15-2A2C

Freq & GPS Voltage

Code	Description
U15	Operates US AMPS/US PCS & GSM, Nextel Bands (804-870 Band), Mobitex (870- 960 Band), 915 ISM, EU GSM/DCS-1800

Cellular Cable & Connector

Code	Description
2A	RG-174 & TNC
2B	RG-174 & MiniUHF
2C	RG-174 & SMA
2H	RG-174 & Fakra
2L	RG-174 & SMC

GPS Cable & Connector

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

Note: All models are dual voltage 3.3/5 VDC

Specifications

Frequency:

GPS	1575.42 +/- 2 MHz
US GSM/CDMA	824-894 MHz/1850-1990 MHz
EU GSM	870-960 MHz/1710-1880 MHz
Nextel	804 - 870 MHz
ISM/Mobitex	870-960MHz

Cellular / PCS Gain:

Unity

GPS Gain:

26 dB, 5 dBi Antenna

VSWR:

2:1 max over range

Noise Figure:

2.0 dB max, 1.7 dB typical

Operating Temp:

-40° to +85° C

Nominal Impedance:

50 ohms

Maximum Power:

10 Watts (Cell/PCS Band)

Amplifier Bias:

Dual 3.3/5 VDC +/- 10%

Current:

20 mA max, 10 mA typical

Cable:

Dual bonded RG-174 10 ft

(3 meters), exits at side

Magnet with protective base.

Mounting:

Base size:

1" H x 2 5/8" D (25mm x 67 mm)

Overall Height:

3.5 inches (89 mm)

Connector:

See above. Consult factory for other configurations.