



Tri-Band Glass Mount
Outside (L) & Inside (R) Portions

Glass Mount AVL Antenna (Patented) Tri-Band for GSM/CDMA & GPS

- Mounts easily to front or rear windshield
- High performance GPS with 26 dB active amplifier, 3 VDC or 5 VDC Bias
- Secure & low profile, external whip is only 3.5" (89 mm)
- Tri-Band for popular combinations

This versatile antenna allows the highest level of integration for AVL/tracking applications. The TriBand antenna provides operation on GSM/CDMA bands along with GPS. The Glass Mount antennas can be mounted to the front or rear of any vehicle.

Models are available for a variety of wireless network combinations, for compatibility around the world. Separate cabling is provided for the GPS interface and the 900/1900 MHz interface.

The antenna mounts to the vehicle window using extreme hold 3M VHB double sided tape. Antennas are provided with 15 feet (4.5 meters) of cable & a wide choice of

connectors. All connectors are male (plugs), the typical configurations are indicated below.

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 is available with dual voltage bias, 3.3/5 VDC.

The cellular whip is only 3 1/2 inches (89 mm), and provides performance up to 3 dB. Unity gain performance is maintained across the GSM/CDMA bands.

Antenna Model Configurator

MM3- example - MM3-U15-1A2C

Freq & GPS

Code	Description
U15	US GSM/CDMA & GPS
C15	915 ISM/US PCS & GPS
E15	EU GSM/DCS & GPS
N15	Nextel/US 1.9 GHz PCS & GPS

Note: All models are dual voltage 3.3/5 VDC

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:

GPS	1575.42 +/- 2 MHz
US GSM/CDMA	824-894/1850-1990 MHz
EU GSM/DCS	870-960/1710-1880 MHz
ISM 915	902-928 MHz
Nextel	806-870 MHz

Cellular Gain:

3 dB

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 Cellular/PCS Band

Amplifier Bias:

Dual 3.3/5 VDC +/- 10% (GPS)

Current:

20 mA max, 10 mA typical

Cable:

See above

Mount:

Exterior
Interior

ABS plastic, 2" dia. (51 mm)
ABS 2"H x 3.25" W coupling box
(51 mm x 83 mm)

Connector:

See above. Other configurations available, please consult factory.