

On-Window Antennas 806-1990 MHz & GPS



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

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 Cellular interface.

The antenna mounts to the vehicle window using 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 external cellular whip is only 3 1/2 inches (89 mm), and provides performance up to 3 dBi on the lower bands. Unity gain performance is maintained across the upper GSM/CDMA bands.

- Mounts easily to front or rear windshield
- High performance GPS with 26 dB LNA, 2.7-5 VDC
- Secure & low profile, external whip is only 3.5" (89 mm)
- Tri-Band for popular combinations

Model Configurator

MM3- - - - - -

Frequency Option

Cable/Connector 1

Cable/Connector 2

Color

Cable Length in Inches (eg. 12 or 180)

Example: MM3-U15-1C2C-BLK-180

Only available in Black - BLK

<u>Freq. Options:</u>		<u>Cable Options:</u>		<u>Connector Options:</u>	
<u>Code</u>	<u>Freq (MHz)</u>	<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>
U15	850/1900/GPS	1	RG-58	A	TNC
C15	925/1900/GPS	2	RG-174	B	Mini UHF
E15	925/1800/GPS			C	SMA
N15	837/1900/GPS			D	SMB
				E	MCX

(Other Configurations available.)

Specifications

Frequency:

GPS	1575.42 +/- 2 MHz
U15	824-894 MHz/1850-1990 MHz
C15	870-960 MHz/1850-1990 MHz
E15	870-960 MHz/1710-1880 MHz
N15	806-870 MHz/1850-1990 MHz

Gain:

806-960	3 dBi
1710-1990	Unity
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 Cellular/PCS Band

Amplifier Bias:

2.7 to 5 VDC

Current:

20 mA max, 10 mA typical

Cable:

Cellular	RG-58, 15 ft (4.5 meters)
GPS	RG-174, 15 ft (4.5 meters)

Mount:

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

Connector:

See above, others available