



High Gain Surface Mount



Magnet Mount Model MGX



Mirror Mount Option SM-MM



Trunk Lip Mount Option SM-TM

This antenna is the ultimate in high gain performance for AVL/tracking applications with a permanent hole mount. This TriBand Surface mount provides operation on GSM, CDMA or Trunking 800 bands along with GPS. The GPS antenna has an active amplifier for maximum satellite reception.

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 2.7-5 VDC bias.

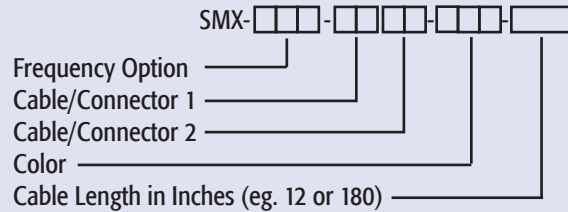
A separate connector is provided for the GPS interface and the 850/1900 band interface. The antennas are provided with 15 feet (4.5 meters) of cables (RG-58 for GSM/CDMA, RG-174 for GPS). Standard connectors are SMA/SMA Plug (Male). Other connectors and configurations may be available, please consult your sales representative.

Models are available for a variety of network combinations. Antenna gain is 2 dBi on the 800 MHz bands, and 5 dBi on the 1.8/1.9 GHz bands. With advanced designs, there is no detrimental interaction between bands.

Surface Mount High Gain 806-1990 MHz & GPS

- Thru-Hole mounts to vehicle roof/trunk, or use optional trunk lip, mirror mount, or mag-mount
- High performance GPS, 26 dB active amplifier
- High performance across all bands
- Available for popular bands including Trunking

Model Configurator



Example: SMX-U15-1A2C-BLK-180
MGX-U15-1A2C-BLK-180

Freq. Options:		Cable Options:		Connector Options:	
Code	Freq (MHz)	Code	Cable	Code	Connector
U15	850/1900/GPS	1	RG-58	A	TNC
C15	925/1900/GPS	2	RG-174	B	Mini UHF
E15	925/1800/GPS	3	RF-195	C	SMA
N15	837/1900/GPS			D	SMB
				E	MCX

(Other Configurations available.)

Specifications

Frequency:		Current:	20 mA max, 10 mA typical
GPS	1575.42 +/- 2 MHz	Cable:	
U15	824-894 MHz/1850-1990 MHz	GPS	RG-174, 15 feet (4.5 m)
C15	870-960 MHz/1850-1990 MHz	Cell/Trunking	RG-58, 15 feet (4.5 m)
N15	806-870 MHz/1850-1990 MHz	Whip:	304 Stainless Steel
E15	870-960 MHz/1710-1880 MHz	Case Material:	Polycarbonate
Gain:	2 dBi on 800 - 960 MHz, 5 dBi on 1.7 - 2 GHz	Dimensions:	12" (305 mm) tall, base is 1" H x 2 5/8" D (25 mm H x 67 mm D)
GPS Gain:	26 dB, LNA 5 dBi nominal RHCP Antenna	Mounting:	3/4" dia x 1/2" long thread (19 mm x 12 mm) for 3/16" thick (4.8 mm) surface Optional Mirror & Trunk Mount
VSWR:	2:1 max over range	Connector:	SMA/SMA Plug (Male) standard
Noise Figure:	2.0 dB max, 1.7 dB typical	Shock & Vibration:	EN 61373, TIA-329.2-C
Operating Temp:	-40° to +80° C	Water Ingress:	IPx5
Nominal Impedance:	50 ohms		
Maximum Power:	10 Watts (Cell/Trunking Band)		
Amplifier Bias:	2.7 to 5 VDC		