



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.

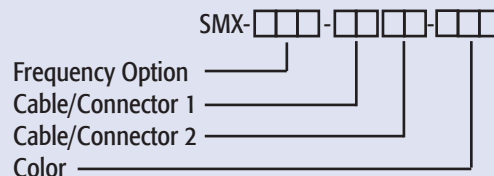
A separate connector is provided for the GPS interface and the 850/1900 band interface. The antennas are provided with 15 feet (4.5 meters) of cables (RG-58 for GSM/CDMA, RG-174 for GPS). Standard connectors are SMA/SMA Plug (Male). Other connectors and configurations may be available, please consult 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
MGX-U15-1A2C-BLK

Freq. Options:

Code	Freq (MHz)
U15	850/1900/GPS
C15	925/1900/GPS
E15	925/1800/GPS
N15	837/1900/GPS

Cable Options:

Code	Cable
1	RG-58
2	RG-174
3	RF-195

Connector Options:

Code	Connector
A	TNC
B	Mini UHF
C	SMA
D	SMB
E	MCX

(Other Configurations available.)

Specifications

Frequency:	
GPS	1575.42 +/- 2 MHz
U15	824-894 MHz/1850-1990 MHz
N15	806-870 MHz/1850-1990 MHz
E15	870-960 MHz/1710-1880 MHz
Gain:	2 dBi on 800 - 960 MHz, 5 dBi on 1.7 - 2 GHz
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 +85° C
Nominal Impedance:	50 ohms
Maximum Power:	10 Watts (Cell/Trunking Band)
Amplifier Bias:	2.7 to 5 VDC
Current:	20 mA max, 10 mA typical

Cable:	
GPS	RG-174, 15 feet (4.5 m)
Cell/Trunking	RG-58, 15 feet (4.5 m)
Whip:	304 Stainless Steel
Case Material:	Polycarbonate
Dimensions:	12" tall, base is 1" H x 2 5/8" D 31 cm tall, base 2.5cm H x 6.7 cm D 3/4" dia x 1/2" long (19 mmx12 mm) for 3/16" thick (4.78 mm) surface
Mounting:	Optional Mirror & Trunk Mount
Connector:	SMA/SMA Plug (Male) standard
Shock & Vibration:	EN 61373, TIA-329.2-C
Water Ingress:	IPx5