



Tri-Band 850/1900 & GPS

## Surface Mount, Low Profile Cellular 806-1990 MHz & GPS

- High performance GPS with 26 dB active amplifier
- Secure & low profile less than 1" high (25 mm), mounts to 5/8" hole (16 mm)
- For Cellular 3G and Trunking

The Tri-Band antenna provides operation on Cellular and Trunking bands along with GPS. The surface mount style antennas can be mounted to any vehicle, cargo container or trailer.

Models are available for Cellular 3G networks. Separate cabling is provided for the GPS and cellular/Data interface.

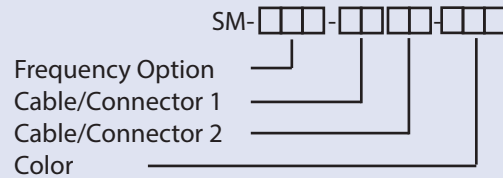
The design uses a 5/8" feed through (16 mm) for securing to the vehicle. For the GPS interface, the antennas are outfitted with 15 feet (4.5 meters) of RG-174 cable and choice of connector.

The connectors are typically SMA Plug (Male). The cellular cable is 15 feet of RG-58 (4.5 meters). Please consult factory for special lengths or connectors.

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 (2.7-5 VDC) and signal is applied through the same cabling directly to the GPS circuit.

The antennas are supplied with all mounting hardware and sealing gasket.

### Model Configurator



Example: SM-U15-1A2C-WHT-180

#### Color Options:

BLK-Black, WHT-White, GRY-Grey

#### Freq. Options:

Code	Freq. (MHz)
U15	850/1900/GPS
E15	925/1800/GPS

#### Cable Options:

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

#### Connector Options:

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

(Other Configurations available.)

### Specifications

Frequency:	U15 E15 GPS	824-894 MHz/1850-1990 MHz 870-960 MHz/1710-1880 MHz 1575.42 +/- 2 MHz	Cable:	Cable 1 (Cellular/PCS) Cable 2 (GPS)	RG-58, 15 ft (4.5 meters) RG-174, 15 ft (4.5 meters)
Cellular / PCS Gain:	Unity		Case:	Case Material:	4.5"D x .95"H (114mm x 24 mm) White or Black: ASA; Grey: ABS
GPS Gain:	26 dB LNA		Stud Mounting:		5/8" dia x 18/32" long (16 mm x 14 mm) thread for 7/32" thick (5.3 mm) metal
VSWR:	2:1 max over range		Hardware:	Connector:	Locknut and gasket included See above, others available
Noise Figure:	2.0 dB max, 1.7 dB typical		Shock & Vibration:		EN 61373, IEEE 1478, MIL-810G, TIA-329.2-C
Operating Temp:	-40° to +80° C		Water Ingress:		IPx5
Nominal Impedance:	50 ohms				
Maximum Power:	10 Watts (800/900 MHz Band)				
Amplifier Bias:	2.7 to 5 VDC				
Current:	20 mA max, 10 mA typical				