



Tri-Band 850/1900 & GPS

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 GSM/CDMA, as well as other popular private 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 GSM/CDMA 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.

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

- Mounts easily to roof, trunk or bulkhead
- 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 GSM/CDMA and Trunking

Model Configurator

SM- - -

Frequency Option

Cable/Connector 1

Cable/Connector 2

Color

Example: SM-U15-1A2C-WHT

Color Options:
BLK-Black, WHT-White, GRY-Grey

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:	824-894 MHz/1850-1990 MHz	Cable:	RG-58, 15 ft (4.5 meters)
U15	870-960 MHz/1850-1990 MHz	Cable 2 (GPS)	RG-174, 15 ft (4.5 meters)
C15	870-960 MHz/1710-1880 MHz	Case:	4.5"D x .95"H (114mm x 24 mm)
E15	806-870 MHz/1850-1990 MHz	Case Material:	White or Black: ASA; Grey: ABS
N15	1575.42 +/- 2 MHz	Stud Mounting:	5/8" dia x 18/32" long (16 mm x 14 mm) thread for 7/32" thick (5.3 mm) metal
GPS	Unity	Hardware:	Locknut and gasket included
Cellular / PCS Gain:	26 dB LNA	Connector:	See above, others available
GPS Gain:	5 dBi nominal RHCP Antenna	Shock & Vibration:	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C
VSWR:	2:1 max over range	Water Ingress:	IPx5
Noise Figure:	2.0 dB max, 1.7 dB typical		
Operating Temp:	-40° to +85° C		
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		