

## Covert Antennas Cellular 806-1990 MHz & GPS



CVO Series Covert Tri-Band

- Flatpack design with weatherproof ABS case
- High performance GPS with 26 dB active amplifier
- Broadband PCB antenna with separate cable for Cellular & GPS bands
- Tape mount; & holes for screw mounting

These triband antennas provide operation on GPS and various Cellular combinations including both US and European bands. These antennas can be mounted on the roof of a vehicle, a light bar, or even on the top of a cargo container.

GPS performance is 26 dB, with 5 dBi antenna gain. They have a low noise figure (1.7 dB typical) with excellent filter characteristics. Power for the built in GPS amplifier can be 2.7 to 5 VDC, making these units universal.

The CVO Series is enclosed in a stylish case of 4.75" L x 3.6" W x 0.88" H (121 mm x 91 mm x 22 mm). The case is water resistant and can be mounted on the exterior of any metal or plastic surface without worry. It uses double sided mounting tape; screw ear holes are also provided for screw/bolt mount. A special channel in the bottom of the unit allows the cable to be routed either out the side, or straight down (through a pre-drilled surface hole).

All models are outfitted with separate cabling for the Cellular and GPS bands. The cable for the GPS feed is 15 ft (4.5 meters) of RG-174. The cable for Cellular band feed is 15 ft (4.5 meters) of RG-58.

A variety of connector configurations is available, please see model number configurator below for full configurations.

Model Configurator					
CVO-[ ]-[ ]-[ ]-[ ]-BLK-180					
Frequency Option					
Cable/Connector 1					
Cable/Connector 2					
Example: CVO-U15-1C2C-BLK-180 CVO-N15-1A2D-BLK-180					
<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	3	RF-195	C	SMA
N15	837/1900/GPS			D	SMB
				E	MCX
<small>(Other Configurations available.)</small>					

### Specifications

<b>Frequency:</b>		<b>Current:</b>	20 mA max, 10 mA typical
GPS	1575.42 +/- 2 MHz	<b>Cable:</b>	
U15	824-894 MHz/1850-1990 MHz	Cable 1 (GPS)	RG-174, 15 ft (4.5 meters)
C15	870-960 MHz/1850-1990 MHz	Cable 2 (Cellular/PCS)	RG-58, 15 ft, (4.5 meters)
E15	870-960 MHz/1710-1880 MHz	<b>Case:</b>	4.75" L x 3.6" W x 0.88" H (121 mm x 91 mm x 22 mm)
N15	806-870 MHz/1850-1990 MHz	<b>Case Material:</b>	ABS plastic, black
<b>Cellular / PCS Gain:</b>	Unity	<b>Mounting:</b>	Double sided tape (provided), or screw/bolt ear holes
<b>GPS Gain:</b>	26 dB LNA	<b>Connector:</b>	SMA/SMA standard
	5 dBi nominal RHCP, Antenna	<b>Shock &amp; Vibration:</b>	EN 61373, IEEE 1478, MIL-810G TIA-329.2-C
<b>VSWR:</b>	2:1 max over all bands	<b>Water Ingress:</b>	IPx5
<b>Noise Figure:</b>	2.0 dB max, 1.7 dB typical		
<b>Operating Temp:</b>	-40° to +85° C		
<b>Nominal Impedance:</b>	50 ohms		
<b>Maximum Power:</b>	10 Watts (800/900 MHz Band)		
<b>Amplifier Bias:</b>	2.7 to 5 VDC		