



CVO Series Covert Tri-Band

Covert GPS Antenna (Pat. Pnd.) TriBand 900 MHz, 1900 MHz & GPS

- Flatpack design with weatherproof ABS case
- High performance GPS with 26 dB active amplifier (Dual voltage 3.3/5V)
- Broadband PCB antenna with separate cable for 900/1900 & GPS bands
- Tape mount & holes for screw mounting

These new TriBand antennas are the latest in low profile technology. These antennas provide operation on the Cellular, 1900 MHz PCS and GPS bands. Other frequency combinations are also available. These antennas might 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 3.3 VDC or 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 waterproof, it 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 predrilled surface hole).

All models are outfitted with separate cabling for the Cellular/PCS and GPS bands. The cable for the GPS feed is 15 ft (4.5 meters) of RG-174. The cable for 900/1900 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.

Antenna Model Configurator

CVO- - example - CVO-U15-1A2C

Freq Band

Code	Description
U15	US GSM/CDMA with GPS
C15	ISM 915/US 1.9 GHz PCS & GPS
E15	EU GSM/DCS-1800 with GPS
N15	Nextel & US 1.9 GHz PCS with GPS

Note: Models are dual voltage 3.3/5 VDC.

Cellular Cable & Connector

Code	Description
1A	RG-58 & TNC
1B	RG-58 & MiniUHF
1C	RG-58 & SMA
1H	RG-58 & Fakra
1J	RG-58 & Rev Pol SMA
1L	RG-58 & SMC

GPS Cable & Connector

Code	Description
2C	RG-174 & SMA
2D	RG-174 & SMB
2E	RG-174 & MCX
2F	RG-174 & MMCX
2H	RG-174 & Fakra
2L	RG-174 & SMC

Specifications

Frequency:

GPS	1575.42 +/- 2 MHz
US GSM/CDMA	824-894 MHz/1850-1990 MHz
EU GSM	870-960 MHz/1710-1880 MHz
ISM	902-928 MHz
Nextel	804 - 870 MHz

Cellular / PCS Gain:

Unity

GPS Gain:

26 dB, 5 dBi Antenna

VSWR:

2:1 max over all bands

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:

Dual 3.3/5 VDC +/- 10%

Current:

20 mA max, 10 mA typical

Cable:

GPS
Cellular/PCS

RG-174, 15 ft (4.5 meters)
RG-58, 15 ft, (4.5 meters)

Case:

4.75"L x 3.6"W x 0.88"H
(121 mm x 91 mm x 22 mm)

Case Material:

ABS plastic

Mounting:

Double sided tape (provided), or screw/bolt ear holes

Connector:

See above, other configurations are available, consult factory.