



CVX Series Covert Tri-Band

Covert GPS Antenna TriBand GSM/CDMA & GPS

- Compact design with stylish ABS case
- High performance GPS with 26 dB amp
- Models for GSM/CDMA, Nextel, ISM 915 combined with GPS
- Double sided adhesive tape for mounting

We've upgraded a popular dual band covert tracking antenna to full GSM/CDMA capability with GPS. Several additional frequency combinations are available. These antennas are typically mounted under the front or rear deck of a vehicle, and provide reliable communication.

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 GPS amplifier is either 3.3 or 5 VDC (dual voltage capable).

The CVX Series is enclosed in a stylish case of 1.6"W x 2.4"L x .55"H (41 mm x 61 mm x 14 mm). The case is water resistant, but should be protected from moisture

and the elements as much as possible. It uses double sided mounting tape, for securing to a surface. Center-fed flexible radiators provide excellent performance.

All models are outfitted with separate cabling for the combined 900/1900 and the GPS bands. The cable supplied is 15 ft (4.5m) of RG-58 for the Cell/PCS/GPRS feed, and 15ft (4.5 m) of RG-174 for GPS. A wide variety of connector configurations is available.

Overall antenna performance will vary based upon the installation. For optimum performance, the antennas should be mounted away from metal objects which might interfere.

Antenna Model Configurator

CVX- example - CVX-U15-1A2C

Freq & GPS Voltage

Code	Description
U15	US AMPS/US PCS - 3.3/5 V GPS
C15	Mobitex & ISM/US PCS - 3.3/5 V GPS
E15	EU GSM/DCS-1800 - 3.3/5 V GPS
N15	Nextel /US PCS - 3.3/5 V GPS

Note: All 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 TNC
1L	RG-58 & SMC

GPS Cable & Connector

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

Specifications

Frequency:

GPS	1575.42 +/- 2 MHz
US GSM/CDMA	824-894 MHz/1850-1990 MHz
Nextel	806-870 MHz
EU GSM	870-960 MHz/1710-1880 MHz
ISM 915	870-960 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:

5 Watts (800/900 MHz Band)

Amplifier Bias:

Dual 3.3/5 VDC +/- 10%

Current:

20 mA max, 10 mA typical

Cable:

15 ft (4.5m) RG-58 for Cell/PCS
15 ft (4.5m)RG-174 for GPS

Case Size:

1.6"W x 2.4"L x 0.55"H
(41 mm x 61 mm x 14 mm)

Dipole Radiators:

Flexible, 4.5" (115 mm) wings

Case Material:

ABS plastic

Mounting:

Double Sided tape provided

Connector:

See configurator above, consult factory for other options.