

Covert Wideband 800-2200 MHz & GPS



Covert Antenna, Wideband

- Multiband antenna for GPS and Cellular Voice/Data up to 2.2 GHz
- Sleek, slim-line profile; 5.5" long
- Rugged case; passes industry and military shock and vibration tests
- Designed to work with most commercially available Cellular/Trunking/ISM modems

Mobile Mark's CVW Series Wideband Covert Antenna for GPS Tracking are designed to cover more wireless applications. This two-cable antenna combines two applications at a time: GPS on one cable and any one of several wireless data applications on the other cable.

The CVW Series stands out from the other Mobile Mark Covert Antenna Series in that it is extremely broadbanded and covers worldwide cellular bands from 800-960 MHz and 1700-2200 MHz, including UMTS and AWS. It has excellent performance characteristics and performs well across the entire band.

For GPS, the performance is 26 dB amplifier gain with 5 dBi RHCP nominal antenna gain. The antennas have low noise figure with excellent filter characteristics. This slim-line antenna can fit in to just about any setting. The complete antenna measures only 5.5" x 1.6" x 0.7" (14 cm x 4 cm x 1.8 cm).

The antennas are typically built with RG-174 cable for GPS and a separate RG-58 cable for Data. Each cable terminates with its own connector and is attached to a separate GPS or Data device. As an option, the CVW Series antennas can be built with 10' dual bonded RG-174 cable.

Standard connector configurations are SMA/SMA. Other configurations are available as a special order.

Model Configurator

CVW-UMB----BLK-120

Cable/Connector 1 _____
Cable/Connector 2 _____

Example: CVW-UMB-1C2C-BLK-120
CVW-UMB-2C2E-BLK-120

| <u>Cable Options:</u> | | <u>Connector Options:</u> | |
|-----------------------|--------------|---------------------------|------------------|
| <u>Code</u> | <u>Cable</u> | <u>Code</u> | <u>Connector</u> |
| 1 | RG-58 | A | TNC |
| 2 | RG-174 | B | Mini UHF |
| | | C | SMA |
| | | D | SMB |
| | | E | MCX |

(Other Configurations available.)

| Specifications | | | |
|-------------------|----------------------------------|----------------------|--|
| Frequency: | 800-960, 1700-2200 & 1575 MHz | Standard cables: | |
| Data side: | | Cable 1 | RG-58 on Data (10 ft/3 m) |
| Gain | 2.5 dBi (peak) | Cable 2 (GPS) | RG-174 |
| VSWR | 2:1 max over range | Optional cables: | Dual RG-174 (10 ft/3 m) |
| Nominal Impedance | 50 Ohms | Connectors: | SMA/SMA standard |
| Power | 10 Watts | Case: | 5.5"L x 1.6"W x 0.7"D (14 cm x 4 cm x 1.8 cm) |
| GPS side: | | Case Material: | UV resistant ASA, Color: black |
| Amplifier gain | 26dB LNA | Mounting: | Tape mounting |
| Antenna gain | 5 dBi nominal RHCP, Antenna | Operating Temp: | -40 to +85 ° C |
| Noise Figure | 2.0 dB max, 1.7 dB typical | Shock and Vibration: | IEEE1478, EN 61373, MIL-810G, TIA 329.2-C |
| Amplifier Bias | 2.7 to 5 VDC | Water Ingress: | IPx5 |
| Amplifier Current | 20 mA max, 10 mA typical | | |