MobileMark
antenna solutions

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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

Cable Options:

Code	Cable
1	RG-58
2	RG-174

Connector Options:

Code	Connector
A	TNC
B	Mini UHF
C	SMA
D	SMB
E	MCX

(Other Configurations available.)

Specifications

Frequency:	800-960, 1700-2200 & 1575 MHz
Data side:	
Gain	2.5 dBi (peak)
VSWR	2:1 max over range
Nominal Impedance	50 Ohms
Power	10 Watts
GPS side:	
Amplifier gain	26dB LNA
Antenna gain	5 dBi nominal RHCP, Antenna
Noise Figure	2.0 dB max, 1.7 dB typical
Amplifier Bias	2.7 to 5 VDC
Amplifier Current	20 mA max, 10 mA typical

Standard cables:	
Cable 1	RG-58 on Data (10 ft/3 m)
Cable 2 (GPS)	RG-174
Optional cables:	Dual RG-174 (10 ft/3 m)
Connectors:	SMA/SMA standard
Case:	5.5"L x 1.6"W x 0.7"D (14 cm x 4 cm x 1.8 cm)
Case Material:	UV resistant ASA, Color: black
Mounting:	Tape mounting
Operating Temp:	-40 to +85 ° C
Shock and Vibration:	IEEE1478, EN 61373, MIL-810G, TIA 329.2-C
Water Ingress:	IPx5