

Covert Broadband Antenna Global LTE with GPS



CVW-LTE

- Compact, covert profile; 1.6" W x 5.5" L (4 cm x 14 cm)
- Global LTE antenna; available with or without GPS antenna
- Broadband coverage: 694-960 & 1700-

Mobile Mark's new CVW-LTE Series Covert Antenna covers even more frequencies than the earlier antennas in the Covert Series. This broadband antenna performs on all Cellular & LTE networks from the 694 MHz to 2.7 GHz, including 3G/4G, AWS, UMTS and LTE. The antenna offers 2.5 dBi gain across the bandwidth.

This resilient antenna has been tested for Shock and Vibration and has passed the following Military & Industrial standards: IEEE-1478, EN61373 and MIL-810G. It has also been tested for water ingress and rated IPx7.

It can be configured with one cable for Cellular & LTE coverage, or with a second cable for GPS coverage; it's designed with dual bonded cables. It can be used for Cellular M2M (machine-to-machine) applications or for GPS Tracking and Fleet Management.

Other cable lengths or connector options are available.

The CVW-LTE is very compact, measuring only 5 1/2" wide by just over 1 1/2" wide (14 cm x 4 cm). The antenna is encased in a solid radome made from black ABS plastic.

The antenna's slim profile allows it to fit into a wide variety of mounting locations. It can be mounted either outside or inside a standalone device, NEMA box or vehicle.

If mounted inside, the enclosure must not be built of metal but must be built out of a material such as plastic or fiberglass that will not block the transmission. The antenna is mounted with industrial grade double sided tape.

The antenna is typically configured with 10 feet (3m) of RG-174 or RG-58 dual bonded cables for both the Cellular/LTE antenna and the GPS, with SMA plug connectors on both cables.

Model Configurator

CVW-LTE- -BLK-120

Cable/Connector 1 └───┬───┘

Cable/Connector 2 └───┘

Example: CVW-LTE-1C2C-BLK-120
 CVW-LTE-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
		E	MCX

(Other Configurations available.)

Specifications			
Frequency:		Max power:	10 watt
Cable 1	695-960/1700-2700 MHz, 2.5 dBi	Dimension:	5 1/2" L x 1 1/2" W (14 cm x 4 cm)
Cable 2	1575.42 +/- 2 MHz	Mounting:	Direct Double sided tape
VSWR:	2:1	Operating Temp:	-40° to +80° C
Radome Material:	Black ASA plastic	Color:	Black
GPS:		Dual Bonded Cables:	10 ft. long RG-174
LNA Gain	26dB	Connectors:	SMA Plug (Male)
Noise Figure	2.0 dB max, 1.7 dB typical	Shock and Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.1-C
Amplifier Bias	2.7 to 5 VDC	Water Ingress:	IPx7
Amplifier Current	20 mA, 10 mA typical		
Nominal Impedance:	50 Ohms (nominal)		