

CVWG508

COVERT MULTI-BAND MIMO ANTENNA

PRODUCT OVERVIEW

The CVWG508 (2x 5G/LTE, 2x WiFi 6E, 1x GNSS) covert antenna includes two 5G/LTE antennas, two WiFi 6E antennas and one GNSS antenna. GNSS operates on GPS, Galileo, Glonass, QZSS or Beidou at 1561, 1575, & 1602 MHz. This antenna provides MIMO (multiple-input-multiple-output) coverage for both Cellular and WiFi 6E. This antenna is ideal for fleet management or enterprise modems that combine GNSS with a broadband 5G/LTE MIMO modem as well as a WiFi 6E MIMO modem. Specify CVWG508 for the GPS only configuration. This antenna is ground plane independent and can be mounted to plastic surfaces, fiberglass or inside a fiberglass enclosure.

Visit our [eStore](#) to customize an Antenna Online.

Electrical Specifications		
Frequency & Gain	5G/LTE Cables 1 & 2	617-960 MHz 2 dBi 1710-7200 MHz, 4 dBi
	WiFi 6E Cables 2 & 3	2.4-2.5 GHz, 4 dBi 4.9-7.2 GHz, 4 dBi
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB, 5 dBi
VSWR	2:1 Typical, 3:1 Max	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
GNSS	Amplifier Gain	26 dB +/- 3 dB
	Amplifier Bias Voltage	2.7 to 5 VDC
	Noise Figure	2.0 dB max, 1.5 dB typical
	Current	20 mA max, 10 mA typical

Mechanical Specifications	
Radome Material & Color	ASA UV-Inhibitive Plastic, Available in Black
Radome Dimension	2.00" (51 mm) Wide x 7.00" (178 mm) Long x 0.75" (19 mm) in Height
Standard Connectors	2x SMA Plugs (Male) for 5G/LTE, 2x Rev Pol SMA Plugs for WiFi 6E, 1x SMA Plug (Male) for GNSS
Standard Cables	10 Feet (3.05 m) - Other Lengths Available Upon Request LMR-100 Cables for 5G/LTE & WiFi 6E, RG-174 for GNSS
Operating Temperature	-40° to +80° C
Mounting	Double Sided VHB Tape
Water Ingress	IPX7 (When Properly Mounted)
RoHS Compliant	Yes



CVWG508-7C7C7J7J2C-BLK-120

2x 5G/LTE ————

2x WiFi 6E ————

GNSS ————

Color ————

Cable Length (in inches) ————

HIGHLIGHTS:

- Multiband: 2X 5G/LTE, 2x WiFi 6E, 1x GNSS
- Low Profile for Covert Design
- MIMO WiFi 6E 802.11 ax
- Made-in-the-USA & UK

RELATED MODELS:

- CVWG508 (Configured with GPS Only)
- CVL-WB2 (Single Element 5G/LTE)
- CVWG-WB2 (5G/LTE & GNSS)
- LLPG708 (2x 5G/LTE, 4x WiFi 6E, 1x GNSS)
- LTMWG944 (4x 5G/LTE, 4x WiFi 6E, 1x GNSS)

COMMON APPLICATIONS:

- Mobile or Fixed Site Applications
- Factory Floors or Office Spaces
- Multiband Transportation or Enterprise Modems
- Smart City Applications
Such as Smart Lighting & Smart Parking



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