

SMHG-W5

LOW PROFILE WIFI 6E MIMO ANTENNA w/ GNSS

PRODUCT OVERVIEW

The SMHG-W5 is a low profile MIMO antenna containing 5 cables. This antenna supports the WiFi 6e/7 bands, along with three GNSS bands. This model is ideal for High-Speed WiFi hotspot communication systems. A model without GNSS (SMH-W4) is available as well.

- **Small and Powerful:** The SMHG-W5 features (4x) Wifi 6e/7, and (1x) GNSS, all in a low profile build.
- **Built to last.** Capitalizing on a rugged, UV rated ASA radome, the SMHG-W5 is water resistant, vibration and shock resistant, making it easy to mount to a roof, truck or bulkhead.

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Electrical Specifications		
Frequency & Gain	WiFi 6E Cables 1 - 4	2.4 - 2.5 & 4.9 - 7.2 GHz, 4 dBi Peak
	GNSS Cable 5	1561, 1575, & 1602 MHz, LNA 26 dB \pm 3 dB, 4 dBiC
VSWR	< 2.0:1 VSWR Over Range	
Impedance	50 Ohm Nominal	
Power Rating	10 Watts	
Noise Figure	1.7 dB Typical, 2.0 dB Maximum	
GNSS	Amplifier Bias Voltage	3 to 5 VDC
	Current	20 mA max, 10 mA typical

Mechanical Specifications		
Radome Material & Color	UV-Stable ASA, Available in Black or White	
Radome Dimension	4.20" (107 mm) in Diameter & 1.3" (33 mm) in Height	
Weight	2.20 lbs (1 kg)	
1ft (305 mm) Pigtail Cables & Connectors Exiting Antenna	WiFi 6E	RG-316 with SMA Plugs (Blue)
	GNSS	RG-174 with SMA Plug (Yellow)
14ft (4.27 m) Jumper Cables & Connectors Included with antenna	WiFi 6E	LL-195 with SMA Jack & Rev Pol SMA Plugs (Blue)
	GNSS	RG-174 with SMA Jack & SMA Plug (Yellow)
Operating Temperature	-40° to +80° C	
Mounting	0.75" (1.9cm) Hole, Panel Thickness Up To 0.63" (1.6cm) Ground Plane Independent	
Shock & Vibration	IEEE-1478, EN 61373, MIL-STD-810G	
Dust & Water Ingress	IP69	
RoHS Compliant	Yes	



HIGHLIGHTS:

- MIMO 5G/LTE & WiFi 6E/Bluetooth
- Extremely Low Profile and Compact
- Ground Plane Independent
- Rugged Construction

COMMON APPLICATIONS:

- Medical IoT
- Industrial IoT
- WiFi Hotspot
- Remote Monitoring
- Smart Cities

BANDS:

- GPS: L1
- Galileo: E1
- GLONASS: L1
- Biedou: B1C
- QZSS: L1C



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