

# AMGANT-G1-ODA5 SERIES INDUSTRIAL HIGH PERFORMANCE GNSS ANTENNAS



## Industrial Wireless Solutions

AMG's low profile high performance GNSS antennas provide discreet and efficient performance with robust and reliable connectivity. Supporting all common global positioning satellite systems including GPS, QZSS, Galileo, GLONASS and BeiDou.



 GNSS x1	 Temp -40~+80°C	 Waterproof IP65	 Mounting Surface	 NDA/TAA Compliant
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[ AMGANT-G1-ODA5 Series ]

### / OVERVIEW

Designed in a compact ASA radome surface mount housing, the AMGANT-G1-ODA5 series GNSS antennas are ideally suited for providing a highly accurate and reliable connection to multiple global satellite positioning systems.

The AMGANT-G1-ODA5 offer an alternative and more secure installation than a traditional magnetic or double sided tape mount antenna and with proper positioning offer enhanced performance of the receiver.

Antenna performance is 26dB, with 5dBi gain and a low 1.7dB typical noise figure with excellent filter characteristics. Power (2.7 to 5V<sub>DC</sub>) and signal is applied through the same cabling directly to the antenna.

The AMGANT-G1-ODA5 antenna uses a 16mm (5/8") diameter, 19mm (3/4") long threaded mount with an integrated gasket for securing to an enclosure, vehicle, building etc.

An optional pole and wall mounting kit is available along with antenna extension cables (up to a maximum of 50M) and are sold separately.

### / FEATURES

- Compact size – 67mm (2.64") diameter & 21mm (0.83") height provides low profile installation
- -40°C to +80°C temperature maintains performance in extreme environmental conditions
- Surface mount design with integrated gasket and 16mm (5/8") threaded mounting point
- GNSS antenna supports all common satellite constellations including GPS, QZSS, Galileo, GLONASS & BeiDou
- 26dB antenna performance with 5dBi gain provides strong signal reception
- Active powered antenna supporting 2.7 to 5V<sub>DC</sub> with low current (10mA typical)
- Supports IP65 for reliable outdoor installation
- Designed in the USA & UK. Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

# Specifications.

<b>Antenna.</b>		<b>Mechanical.</b>	
GNSS Frequency	1561, 1575 & 1602 MHz	Housing	ASA Plastic
GNSS Gain	26dB LNA	Dimensions:	(W x D x H)
	5dBi Nominal RHCP	(Excluding Mounting Thread)	67 × 67 × 21 mm
VSWR	2:1 Max Over Range	IP Rating	IP65
Noise	1.7dB Typical (2.0dB Max)	Installation	Surface Mount
			16mm (5/8") Diameter Thread
			19mm (3/4") Long Thread
			Nut, Lockwasher & Gasket
			0.16kg / 0.35lb
<b>Interface.</b>		<b>Environmental.</b>	
Cable Type	RG-174	Operating Temp.	-40 to +80°C / -40 to +176°F
Cable Length	4.5m (15ft)	Storage Temp.	-40 to +85°C / -40 to +185°F
GNSS Connector	SMA (Male)	MTBF	>500,000 hours
Nominal Impedance	50 Ohm	MTBF Standard	Telcordia SR-332 GF 30°C
<b>Packaging.</b>		<b>Regulatory.</b>	
Shipping Weight	0.29kg / 0.64lb	Rail	EN 61373
Dimensions:	(W x D x H)		IEEE 1478
	220 × 170 × 105 mm	Military	MIL-STD-810G (Shock & Vibration)
	8.66 × 6.69 × 4.13 in	Vehicular	TIA-329.2-C
		Environmental	Reach, RoHS, WEEE
		Supply Chain	NDAA & TAA Compliant
<b>Power.</b>			
Power Inputs	1		
Operating Voltage	2.7-5V <sub>DC</sub>		
Power Consumption	0.05W Typical (0.1W Max)		

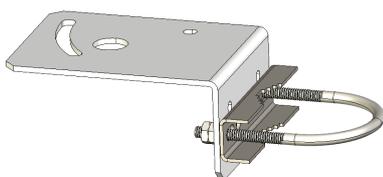
# Part Numbers.

## Industrial High Performance GNSS Antennas

AMGANT-G1-ODA5-4.5B	360° Omni-Directional Antenna, 1x GNSS 5dBi Gain, IP65, Surface Mount, Black
AMGANT-G1-ODA5-4.5W	360° Omni-Directional Antenna, 1x GNSS 5dBi Gain, IP65, Surface Mount, White

# Optional Accessories.

AMGMNT-ANT-02 CAB4-xx Wall & Pole Mount Kit For 360° Omni-Directional AMGANT-G1-ODA5 Series GNSS Antennas  
Antenna Extension Cable, SMA-Type Male to SMA-Type Female, xxM RG174 Cable, Black\*



\* GNSS antenna extension cables are available in lengths from 1M to 50M. Contact AMG Technical Services for advice and support.

*In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit [www.amgsystems.com](http://www.amgsystems.com) for the latest product specifications.*

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