






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	 NDAA/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_{DC}) 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_{DC} 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.

Antenna.

GNSS Frequency	1561, 1575 & 1602 MHz
GNSS Gain	26dB LNA 5dBi Nominal RHCP
VSWR	2:1 Max Over Range
Noise	1.7dB Typical (2.0dB Max)

Interface.

Cable Type	RG-174
Cable Length	4.5m (15ft)
GNSS Connector	SMA (Male)
Nominal Impedance	50 Ohm

Packaging.

Shipping Weight	0.29kg / 0.64lb
Dimensions:	(W x D x H) 220 x 170 x 105 mm 8.66 x 6.69 x 4.13 in

Power.

Power Inputs	1
Operating Voltage	2.7-5V _{DC}
Power Consumption	0.05W Typical (0.1W Max)

Mechanical.

Housing	ASA Plastic
Dimensions:	(W x D x H) 67 x 67 x 21 mm 2.64 x 2.64 x 0.83 in
IP Rating	IP65
Installation	Surface Mount 16mm (5/8") Diameter Thread 19mm (3/4") Long Thread Nut, Lockwasher & Gasket
Weight	0.16kg / 0.35lb

Environmental.

Operating Temp.	-40 to +80°C / -40 to +176°F
Storage Temp.	-40 to +85°C / -40 to +185°F
MTBF	>500,000 hours
MTBF Standard	Telcordia SR-332 GF 30°C

Regulatory.

Rail	EN 61373 IEEE 1478
Military	MIL-STD-810G (Shock & Vibration)
Vehicular	TIA-329.2-C
Environmental	Reach, RoHS, WEEE
Supply Chain	NDAA & TAA Compliant

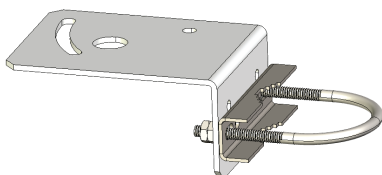
Part Numbers.

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*
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* 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 for the latest product specifications.

AMG Systems Ltd. 4 Pioneer Way, Castleford, WF10 5QU, UK T: +44 (0) 1767 600 777 E: sales@amgsystems.com
AMG Systems Inc. 62 Spring Hill Road, Trumbull, CT 06611, USA T: +1-855-AMGPOE1 (855-264-7631) E: usasales@amgsystems.com
D39330-00 amgsystems.com

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