



FAA Approved Facility

# Antcom's G5 Antenna, Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna, P/N: G5Ant-3AMT1

## 3.5in Dia. Top/Magnetic Mount Configuration

(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar/TerraStar)

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

“-HF” for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@1660MHz, -27dB@1545MHz  
“-HFO” for Additional OmniStar/TerraStar Rejection: -27dB@1545MHz

**MECHANICAL:**

SIZE: DIAMETER: 3.50 in. [ 88.90 mm]  
HEIGHT: 0.97in. [24.66 mm]  
13 oz. (368 g)

WEIGHT: SKYDROL RESISTANT POLYURETHANE ENAMEL  
FINISH: BASE IRIDITE PER MIL-C-5541F CLASS 1A  
COLOR: GLOSS WHITE #17925 PER FED-STD-595B  
MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,  
SKYDROL RESISTANCE, AND FIRE RETARDANT

CONNECTOR: TNC FEMALE  
(OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

**ENVIRONMENTAL:**

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C] (Operational)  
-85 °F TO +302 °F [-65 °C TO +150 °C] (Storage)

ALTITUDE: 70,000 ft.  
VIBRATION: > 30 G's  
LEAKAGE: HERMETICALLY SEAL  
FAILURE: < 0.5" Dia.

**DESIGN TO:** FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

**SPECIFICATIONS**

ELECTRICAL:	L5 GPS E5, E5a, E5b Galileo L5 IRNSS		L2 GPS B2 Compass		L2 GLONASS E6 Galileo B3 Compass		OmniSTAR / L-Band L6 Galileo B1 Compass		L1 GPS E1, E2 Galileo L1 IRNSS		L1 GLONASS	
	FREQUENCY:	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609 ± 7.0 MHz					
RADIATION PATTERN:	HEMISPHERICAL											
POLARIZATION:	RHCP		RHCP		RHCP		RHCP		RHCP		RHCP	
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		50 ohms		50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 30° Elevation:	-3	+3	+2.6	+4.8	+0.0	+2.4	+2.1	-2.0	+4.0	+2.0	+3.0	+1.4
@ 20° Elevation:	-9	-10	-3.5	-3.5	-6.5	-6.3	-4.7	-5.1	-2.7	-2.5	-3.9	-3.4
@ 30° Elevation:	-8	-7	-2.0	-0.3	-4.7	-3.2	-3.5	-1.9	-1.7	+0.4	-2.9	-0.5
@ 30° Elevation:	-6	-5	-0.4	+1.8	-3.4	-1.2	-2.5	-0.5	-0.5	+1.6	-1.6	+0.5
@ 60-90° Elevation:	> -4	> -4	> 1.3	> 2.6	> -1.5	> -0.1	> 1.1	> 0.5	> 2.9	> 1.6	> 2.0	> -0.2
BEAM WIDTH (3dB):	110 Deg	120 Deg	110 Deg	115 Deg	105 Deg	110 Deg	95 Deg	145 Deg	95 Deg	150 Deg	95 Deg	145 Deg
AXIAL RATIO:	1.5 dB	2 dB	1 dB	1 dB	1 dB	2 dB	1 dB	2 dB	1 dB	1 dB	2 dB	3 dB
LIGHTNING PROTECTION:	DC GROUNDING											
LNA GAIN:	35 dB		35 dB		35 dB		33 dB		33 dB		33 dB	
LNA NOISE FIGURE:	3.0 dB		3.0 dB		3.0 dB		3.0 dB		3.0 dB		3.0 dB	
LNA P1dB Out:	+13 dBm		+13 dBm		+13 dBm		+13 dBm		+13 dBm		+13 dBm	
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA											
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)											

QUANTITY REQD	DESCRIPTION	PART NO	THUM NO
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	5
4	Washer, Custom C'Sink	3G15P1001-70	3
1	ADHESIVE Rubber Cover (Item 541G3I)	Magnet-Cover-3i	1

SIZE	QTY	DESCRIPTION	LNA:	Mount:	CONNECTOR:	COLOR:
1: 2" SQ.	42	ARINC 743	A: WITH LNA	M: Magnetic Mount	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	52	2.6" DIA. ON 5" GROUND PLANE	P: WITHOUT LNA	MIN: Flush Magnetic Mount	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	72	7" DIA. W/ WAKE RING		N: No Magnet	N: N, NB, N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3.5" DIA.					T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC						-5: TAN #; FS 23448 or 33446, FED-STD-595

**ANTCOM CORP.** TORRANCE, CALIFORNIA

3.5in Dia.  
L1L2Glonass/L1L2GPS/OmniStar  
G5 ANTENNA

DATE: D.3CVE1  
REV: G5Ant-3AMT1  
SCALE: 1/1  
SHEET: 1 OF 1

NMO Connector Option is Now Available for Some Antennas