



Antcom's G5 Antenna, Active L1/L2 Glonass + L1/L2 GPS + OmniStar/TerraStar Antenna

P/N: G5Ant-52A1T1 (33dB Version); P/N: G5Ant-52A2T1 (20dB Version);

P/N: G5Ant-52A4T1 (43dB Version)

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

FAA Approved Facility

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



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"-HF" for High Iridium/Inmarsat/Thuraya-Rejection Front End Filter Option: -22dB@1616MHz, -34dB@1625-1660MHz  
 "-HFO" for Additional OmniStar/TerraStar Rejection: -27dB@1545MHz

### 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
<b>FREQUENCY:</b>	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
<b>RADIATION PATTERN:</b>	HEMISPHERICAL					
<b>POLARIZATION:</b>	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP
<b>VSWR:</b>	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
<b>IMPEDANCE:</b>	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
<b>ANTENNA GAIN (dBic):</b>						
@ 90° ZENITH:	- 1	+ 5.3	+ 2.8	+ 2.8	+ 4.9	+ 4.7
@ 10° Elevation:	- 9	- 2.7	- 5.2	- 6.0	- 3.8	- 4.2
@ 20° Elevation:	- 7	- 0.9	- 3.6	- 4.2	- 2.1	- 2.3
@ 30° Elevation:	- 6	+ 0.4	- 2.4	- 2.4	- 0.3	- 0.6
@ 60 - 90° Elevation:	> -3	> 4.2	> 1.6	> +1.3	> +3.4	> +3.2
<b>BEAM WIDTH (3dB):</b>	85 Deg.	90 Deg.	90 Deg.	80 Deg.	80 Deg.	82 Deg.
<b>AXIAL RATIO:</b>	1.5 dB	1 dB	1 dB	3 dB	1 dB	4 dB
<b>LIGHTNING PROTECTION:</b>	DC GROUNDING					
<b>LNA GAIN:</b>	35 dB	35 dB	35 dB	33 dB	33 dB	33 dB
<b>LNA NOISE FIGURE:</b>	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB
<b>LNA P1dB Out:</b>	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm
<b>LNA DC POWER:</b>	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/≤50mA					
<b>POWER HANDLING:</b>	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)					

**MECHANICAL:**

**SIZE:** DIAMETER: 5.00 in. [127.00 mm]  
HEIGHT: 1.68in [42.7mm]; 0.457 in. [11.6 mm] Above G.P.

**WEIGHT:** 7oz. (199 g)

**FINISH:** SKYDROL RESISTANT POLYURETHANE ENAMEL  
BASE IRIDITE PER MIL-C-5541F CLASS 1A

**MATERIAL:** 6061-T6 ALUMINUM ALLOY BASE  
COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,  
SKYDROL RESISTANCE, AND FIRE RETARDANT

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

**ENVIRONMENTAL:**

**TEMPERATURE:** -67 °F TO +185 °F [-55 °C TO +85 °C]

**VIBRATION:** 70,000 fl.  
> 30 G's  
HERMETICALLY SEAL

**FEDERAL & MILITARY SPECIFICATIONS:**

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

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

**REVISIONS**

ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	ECO# 0020, RELEASE	Mar-24-09	S. HUYNH
		NEW MOUNT	5/19/16	S.H

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**1-1/16 [26.92]**  
For High/Constant Vibration Applications,  
Please Tight The Antenna to  
~700 in-lbs of Torque with  
Thread Locker to Avoid Wear.

**P/N: G5Ant-52AT1**

**TNC FEMALE CONNECTOR**  
(OPTION: SMA, BNC, TNC Bulkhead, N,

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	ITEM NO
1	5/8"-11 Mount		MTR-3B-G5	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	FRACTIONS	DECIMALS	ANGLES
	± 1/64	.002, .005	± 1°

ORIGINAL DESIGNED	ORIGINAL DESIGNED	UPDATED	UPDATE DRAWN	APPROVED
S. HUYNH	S. HUYNH	S. HUYNH	P. TRAN	S. HUYNH
Mar-24-09	Mar-24-09	May-20-15	May-20-15	May-20-15

**ANTCOM CORP.** TORRANCE, CALIFORNIA

SURVEY MOUNT,  
L1L2Glonass/L1L2GPS/OmniStar  
G5 ANTENNA

REV D | 3CVE1 | G5Ant-52AT1 | A

SCALE 1/1 | SHEET 1 OF 1