



Antcom's **G3 Antenna**, Active **L1 Glonass + L1 GPS + OmniStar** Antenna, P/N: G3Ant-52AT1 **Survey Mount Configuration** **(with Filters, better RTK Performance, Optimized for L1 Glonass & L1 GPS & OmniStar)**



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

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SPECIFICATIONS

ELECTRICAL:

	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	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
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBic):			
@ 90° (ZENITH):	+ 2.8	+ 4.9	+ 4.7
@ 10° Elevation:	- 6.0	- 3.8	- 4.2
@ 20° Elevation:	- 4.2	- 2.1	- 2.3
@ 30° Elevation:	- 2.4	- 0.3	- 0.6
@ 60 - 90° Elevation:	> + 1.3	> + 3.4	> + 3.2
BEAM WIDTH (dB):	80 Deg.	80 Deg.	82 Deg.
AXIAL RATIO:	3 dB	1 dB	4 dB
LIGHTNING PROTECTION:	DC GROUNDING		
LNA GAIN:	33 dB	33 dB	33 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	+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-)		

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]
70,000 ft.

VIBRATION: > 30 G's
HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:
FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-145208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

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SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	A: WITH LNA	X: NO CABLE	S: SMA; SMB; SMR; B: BNC
1.9: 1.9" SQ.	52: 2.6" DIA. ON 5" GROUND PLANE	P: WITHOUT LNA		M: MCX; MM; MMCX; MMR; MMCX-R
2: 2.6" DIA.	72: 7" DIA. CHOKER RING			N: N; NB: N Bulkhead
3: 3.5" DIA.	5: Bare on Sin [126mm] Dia. Ground Plane			T: TNC; TB: TNC-Bulkhead
4: MINI ARINC	X.X: Bare on X.Xin Dia. Ground Plane			SMC; SSMC; SSMB; SSMA

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

QUANTITY	DESCRIPTION	PART NO.	FINISH	REV. NO.
1	5/8"-11 Mount	MTR-3B-G5		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	FRACIONS: 1/16, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 2 3/4, 3, 3 1/4, 3 1/2, 3 3/4, 4, 4 1/4, 4 1/2, 4 3/4, 5, 5 1/4, 5 1/2, 5 3/4, 6, 6 1/4, 6 1/2, 6 3/4, 7, 7 1/4, 7 1/2, 7 3/4, 8, 8 1/4, 8 1/2, 8 3/4, 9, 9 1/4, 9 1/2, 9 3/4, 10	TOLERANCES: .005, .010, .015, .020, .030, .040, .050, .060, .070, .080, .090, .100, .125, .150, .180, .200, .250, .300, .375, .450, .500, .625, .750, .875, 1.000	ANGLES: ± 1°
TOLERANCE SURF PER ANS Y14.5	REWORK: ALL SURF.		
BREAK: EXTERNAL EDGES .005 TO .015	FINISH: PER MIL-C-5541		
SCREW THREADS PER UNF-8B79	DRY: ON A COMMON 1/2" DIA		
MACHINED SURFACES 25°			
DO NOT SCALE DRAWING			

ANTCOM CORP. TORRANCE CALIFORNIA

SURVEY MOUNT,
L1 Glonass/L1 GPS/OmniStar
G3 ANTENNA

DRAWING NO: **DJ3CVE1** PART NO: **G3Ant-52AT1**

SCALE: 1/1 SHEET 1 OF 1