



Antcom's **G3 Antenna**, Active **L1 Glonass + L1 GPS + OmniStar** Antenna, P/N: **G3Ant-1AT1** **2in Square Bottom Mount Configuration** **(with Filters, better RTK Performance, Optimized for L1 Glonass & L1 GPS & OmniStar)**

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P/N: G3Ant-1AS1 **Connector Color**

NOTICE OF PROPRIETARY RIGHTS		REVISIONS				
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ELECTRICAL:		SPECIFICATIONS	
FREQUENCY:		OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS
		1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz
			1609 ± 7.0 MHz
HEMISPHERICAL			
RADIATION PATTERN:		RHCP	RHCP
POLARIZATION:		< 2.0:1	< 2.0:1
VSWR:		< 2.0:1	< 2.0:1
IMPEDANCE:		50 ohms	50 ohms
ANTENNA GAIN (dBic):		Free Space	Free Space
@ 90° (ZENITH):		+1.9	+1.0
@ 10° Elevation:		-5.0	-5.7
@ 20° Elevation:		-3.9	-3.9
@ 30° Elevation:		-2.6	-3.0
@ 80-90° Elevation:		> +0.8	> +0.2
BEAM WIDTH (3dB):		95 Deg.	97 Deg.
AXIAL RATIO:		1 dB	1 dB
LIGHTNING PROTECTION:		DC GROUNDING	
LNA GAIN:		33 dB	32 dB
LNA NOISE FIGURE:		3.0 dB	3.0 dB
LNA P1dB Out:		+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:	LENGTH: 2.078 in. [52.78 mm] SQUARE HEIGHT: 0.805 in. [20.45 mm]
WEIGHT:	3.7 oz. (105 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:	SMA FEMALE (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, MCX, MMCX)

ENVIRONMENTAL:	
TEMPERATURE:	-67 °F TO +185 °F [-55 °C TO +85 °C]
VIBRATION:	70,000 ft. > 30 G's HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:	
	FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE:	
	ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	REV
				5
				4
1				3
1				2
1	ADHESIVE GASKET	123456-3M-1G		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCE ± 1/64 ± .005 ± .01	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ANGLES TOLERANCE ± 1/64 ± .005 ± .01	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ANGLES TOLERANCE ± 1/64 ± .005 ± .01
REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE TO .005 TO .010 SOFTEN THREADS PER MIL-3-8879 DAYS ON A COMMON LOT .0005 MACHINED SURFACES	DO NOT SCALE DRAWING	SCALE 1/1

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17025 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA		M: MCX; M2: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2" DIA.			N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
3: 3" DIA.			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC				-5: TAN #: FS 23146 or 33448, FED-S: D-595