



Antcom's **G3 Antenna**, Active **L1 Glonass + L1 GPS + OmniStar** Antenna, P/N: G3Ant-42AT1 **Avionics Arinc 743 Configuration** **(with Filters, better RTK Performance, Optimized for L1 Glonass & L1 GPS & OmniStar)**

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ZONE		REVISIONS			
		REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

FREQUENCY:	OmniSTAR / L-Band	L1 GPS	L1 GLONASS
	1542.50 ± 14.0 MHz	E1, E2 Galileo	1575.42 ± 15.0 MHz
1542.50 ± 5.0 MHz	B1 Compass	1575.42 ± 17.0 MHz	
1561.098 ± 10 MHz		1575.42 ± 12.0 MHz	

MECHANICAL:

SIZE: WIDTH: 3.00 in. [76.20 mm], LENGTH 4.700 in. [119.38 mm], HEIGHT: 0.898 in. [22.80 mm]

WEIGHT: 8.02 oz. (227 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 TYPE FEMALE (OPTION: SMA, BNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

ENVIRONMENTAL:

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

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DESIGN TO: 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

.236 [5.99] 0.25" [6.37] (MCX/MMCX), 0.46" [11.68] (SMA), 0.57" [14.53] (TNC), 0.63" [16.01] (TNC-BH), 0.72" [18.29] (N, N-BH)

P/N: G3Ant-42AT1

SIZE:	LNA:
1: 2" SQ.	A: WITH LNA
1.8: 1.9" SQ.	P: WITHOUT LNA
2: 2.6" DIA.	
3: 3.5" DIA.	
4: MINI ARINC. 42: 743 ARINC.	
5: 2.6" DIA. ON 5" GROUND PLANE	
7: 7" DIA. CHOKER RING	

2. MOUNTING SCREWS & ADHESIVE GASKET ARE SUPPLIED BY ANTCOM
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

CABLE'S LENGTH:	CONNECTOR:	COLOR:
X: NO CABLE	S: SMA; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #30520 PER FED-STD-595B
	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	REV
5					
4					
4	Mounting Screw: 10-32, 1"		MS24693C276		3
					2
1	O-Ring or Gasket		2-142/N756-75		1

<p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES ± 1/64 .005 .015 .001 ± 1°</p> <p>TOLERANCE SURF PER ANS Y14.5</p> <p>REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 RADIUS PER MIL-S-8879 DAYS ON A CORNER L22-009</p> <p>MACHINED SURFACES</p> <p>DO NOT SCALE DRAWING</p>	<p style="text-align: center; font-weight: bold;">ANTCOM CORP.</p> <p style="text-align: center;">743 ARINC, ACTIVE L1 Glonass/L1 GPS/OmniStar G3 ANTENNA</p> <p style="text-align: center; font-size: 24px; font-weight: bold;">G3Ant-42AT1</p> <p style="text-align: center;">SCALE 1/1</p> <p style="text-align: right;">SHEET 1 OF 1</p>
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