Active G3 L1 Glonass + L1 GPS + 2.4 GHz Wifi Antenna

P/N: G3Ant-3AT1-W-RoHS

For Buoy, Marines, Deep Sea and Ground Applications

FAA Approved Facility

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 . http://www.antcom.com

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

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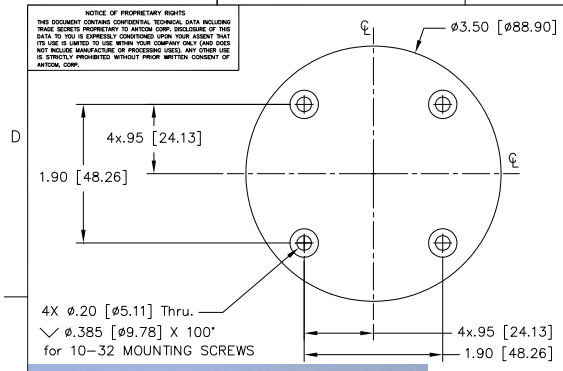

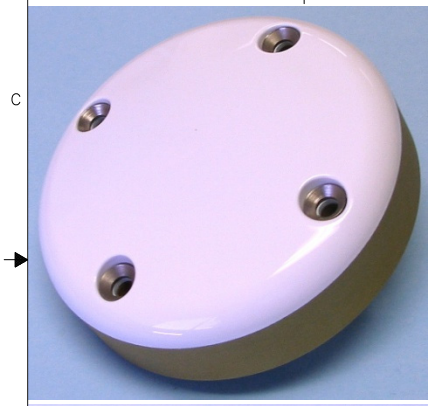

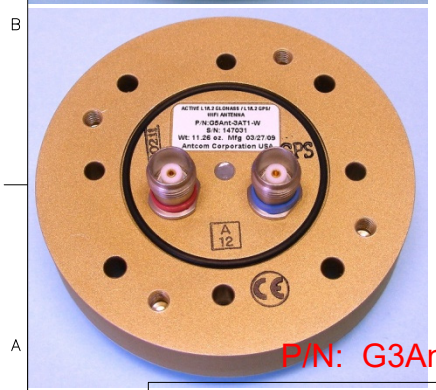

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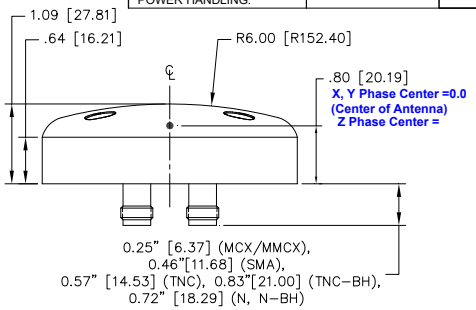

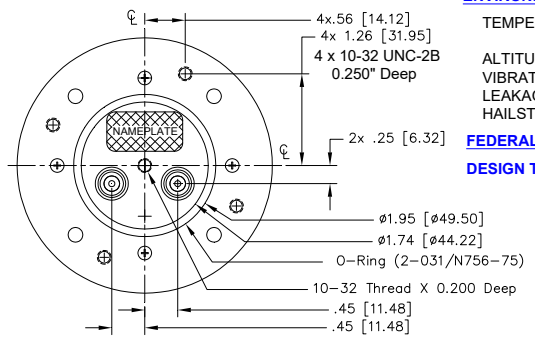

SPECIFICATIONS

ELECTRICAL:

				OmniSTAR / L-Band L6 Galileo B1 Compass		L1 GPS E1, E2 Galileo L1 IRNSS		L1 GLONASS		WiFi
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		(2.4-2.5) GHz
RADIATION PATTERN:	HEMISPHERICAL									
POLARIZATION:				RHCP		RHCP		RHCP		VERTICAL
VSWR:				< 2.0:1		< 2.0:1		< 2.0:1		
IMPEDANCE:				50 ohms		50 ohms		50 ohms		50 ohms
ANTENNA GAIN (dBic):				Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P	1/4 WAVE MONOPOLE
@ 90 ° (ZENITH):				+ 1.2	+ 0.8	+ 4.0	+ 3.0	+ 3.7	+ 2.2	
@ 10 ° Elevation:				- 6.3	- 5.4	- 3.5	- 3.0	- 4.0	- 4.1	
@ 20 ° Elevation:				- 4.6	- 3.8	- 1.9	- 1.5	- 2.5	- 2.6	
@ 30 ° Elevation:				- 3.5	- 2.9	- 0.6	- 0.5	- 1.1	- 1.6	
@ 60 - 90 ° Elevation:				> - 0.2	> + 0.2	> + 2.6	> + 2.4	> + 2.2	> + 1.5	
BEAM WIDTH (3dB):				90 Deg.	100 Deg.	90 Deg.	105 Deg.	85 Deg.	100 Deg.	
AXIAL RATIO:				3 dB	1 dB	1 dB	1 dB	5 dB	2.5 dB	
LIGHTNING PROTECTION:	DC GROUNDING									N/A
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: 3.50 in. [88.90 mm] HEIGHT: 1.09 in. [27.81 mm]
WEIGHT:	11.3 oz. (320 g)
FINISH:	SKYDROL RESISTANT POLYURETHANE ENAMEL 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
HAILSTONES:	< 0.5" Dia.

FEDERAL & MILITARY SPECIFICATIONS:

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

QUANTITY REQD	DESCRIPTION	PART NO	ITEM NO
4	Mounting Screws: 10-32, 1.25"	J507C1032R20 (93085A835)	5
4	Washer, Custom C'Sink	3G15P1001-70	3
1	O-Ring or Gasket	2-031/N756-75 or 3G15P1001-3G	1

PARTS LIST

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	42: ARINC 743	A: WITH LNA	X: NO CABLE	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		M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	72: 7" DIA. CHOKE RING			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 23446 or 33446, FED-STD-595

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°
TOLERANCE SYM PER ANSI Y14.5
REMOVE ALL BURRS
BREAK EXTERNAL EDGES .005 TO .015
FILLETS R .005 TO R .030
SCREW THREADS PER MIL-S-8879
DIA'S ON A COMMON ℄ .005
MACHINED SURFACES 125
DO NOT SCALE DRAWING

DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Mar-24-09
CAD FILE NO

ANTCOM CORP. TORRANCE CALIFORNIA

3.5in Dia.
L1 GLonass/L1 GPS/OmniStar
G3 ANTENNA + WiFi

SIZE D | CAGE NO 3CVE1 | DRAWING NO G3Ant-3AT1-W | REV
SCALE 1/1 | SHEET 1 OF 1

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED