Antcom's G3 Antenna

Active L1 Glonass + L1 GPS + OmniStar/TerraStar Antenna, P/N: G3Ant-52AT1

Survey Mount Configuration

(with Filters, better RTK Performance, Optimized for L1 Glonass & L1 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@(1625-1660)MHz

"-HFO" for Additional Omnistar Rejection: -27dB@1545MHz

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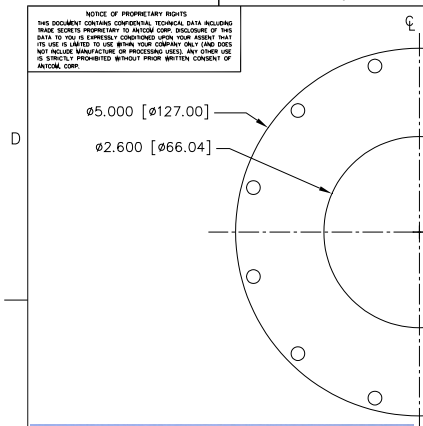

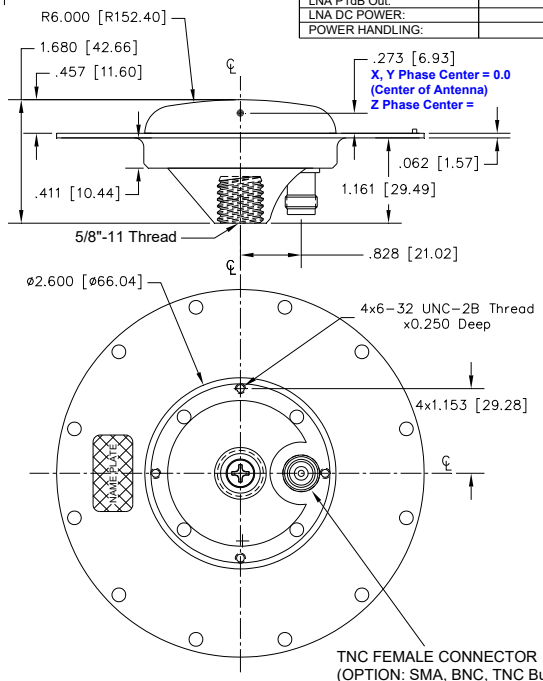

P/N: G3Ant-52AT1

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 (3dB):				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, D0-228, 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	ITEM NO
				5
				4
			–	3
				2
1	5/8"-11 Mount	MTR-3B-G5	–	1

PARTS LIST

SIZE:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH LNA	X: NO CABLE	S: SMA; SMB; SMBR; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	P: WITHOUT LNA		M: MCX; MM: MMCX;MMR: MMCX-R	-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.	5: Bare on 5in [126mm] Dia. Ground Plane		T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC	X.X: Bare on X.Xin Dia. Ground Plane		SMC, SSMC, SSMB, SSMA	

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 C'BORE .005
MACHINED SURFACES 125
DRAWN
CHECKED
ENGINEER
APPROVED S. HUYNH Mar-24-09
CAD FILE NO
DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

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

SIZE D | CAGE NO 3CVE1 | DRAWING NO G3Ant-52AT1 | REV
SCALE 1/1 | SHEET 1 OF 1

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED