



FAA Approved Facility

The FIXEDMOUNT I

New High Performance Fixed Mount GNSS Antenna

P/N: G8Ant-3A4TB1 Rev A

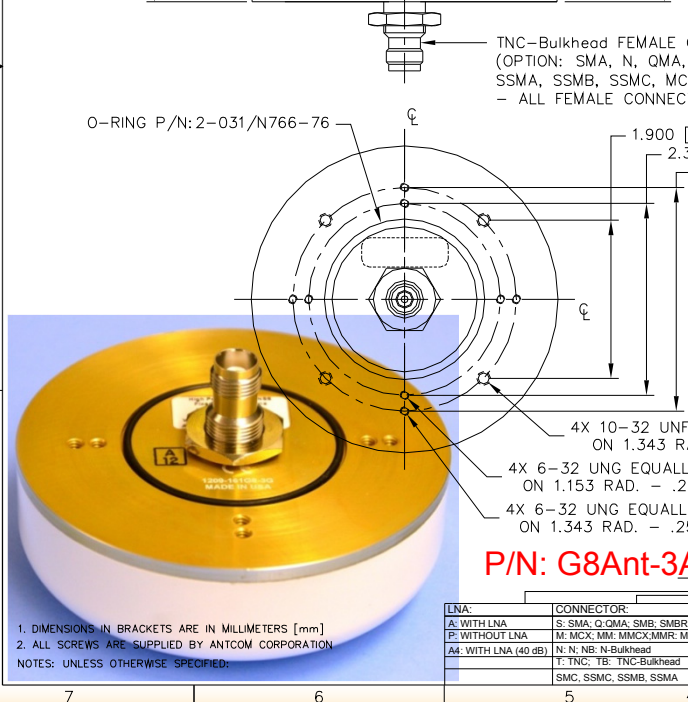
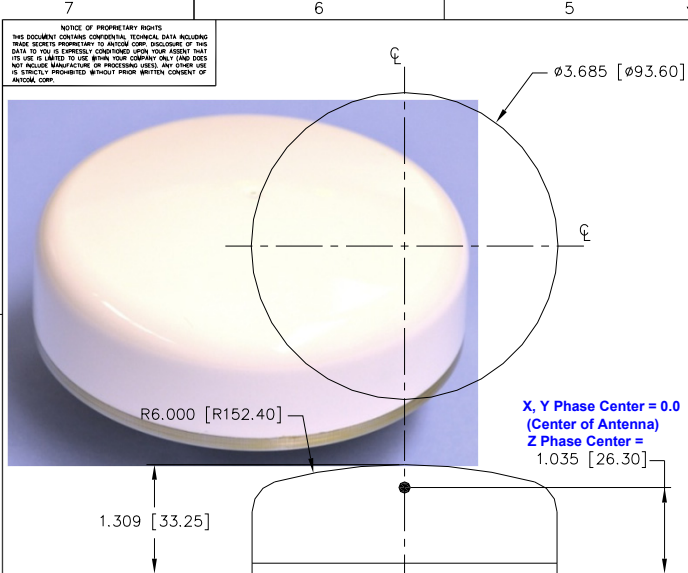
For Multi-purpose Applications

Antenna Mounts/Adapters: <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@1625-1660MHz**
“-HFO” for Additional Omnistar Rejection: **-27dB@1545MHz**



- 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION
- NOTES: UNLESS OTHERWISE SPECIFIED:

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LNA:	CONNECTOR:	COLOR:
A: WITH LNA	S: SMA; Q: QMA; SMB; SMR; B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
P: WITHOUT LNA	M: MMCX; MM: MMCX/MR; MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
AM: WITH LNA (40 dB)	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
	SMC; SSMC; SSMB; SSMA	-5: DESERT TAN #33448 PER FED-STD-595B

SPECIFICATIONS

ZONE	REVISIONS					
	REV	DESCRIPTION	DATE	APPROVED		
ELECTRICAL:						
FREQUENCY:						
L5 GPS E5, E5a, E5b Galileo L5 IRNSS	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 12 MHz	L2 GPS B2 Compass 1227.60 ± 12 MHz 1207.14 ± 10 MHz	L2 GLONASS E6 Galileo B3 Compass 1242 - 1252 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	OmniSTAR / L-Band L6 Galileo B1 Compass 1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10 MHz	L1 GPS E1, E2 Galileo L1 IRNSS 1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	L1 GLONASS 1598 - 1609 MHz
RADIATION PATTERN:						
POLARIZATION: RHCP RHCP RHCP RHCP RHCP RHCP						
VSWR: < 2.0:1 < 2.0:1 < 2.0:1 < 2.0:1 < 2.0:1 < 2.0:1						
IMPEDANCE: 50 ohms 50 ohms 50 ohms 50 ohms 50 ohms 50 ohms						
ANTENNA GAIN (dBic):						
@ 90° Above Horizon (Top): + 0.2 + 1.3 + 1.4 + 4.1 + 4.9 + 5.0						
@ 15° Above Horizon: - 4.5 - 3.8 - 3.9 - 3.9 - 3.3 - 3.1						
@ 20° Above Horizon: - 3.5 - 2.9 - 3.0 - 3.1 - 2.5 - 2.3						
@ 25° Above Horizon: - 2.5 - 2.0 - 2.1 - 2.1 - 1.6 - 1.5						
@ 30° Above Horizon: - 2.2 - 1.7 - 1.8 - 1.5 - 0.8 - 0.7						
@ 70° Above Horizon: - 0.2 + 0.8 + 0.9 + 3.4 + 4.2 + 4.4						
BEAM WIDTH (3dB): 124 Deg. 120 Deg. 120 Deg. 80 Deg. 80 Deg. 80 Deg.						
AXIAL RATIO: 1 dB 1 dB 1 dB 1 dB 1 dB 1 dB						
MULTIPATH REJECTION (RHCP/LHCP):						
@ 90° Above Horizon (Top): 34 dB 32 dB 30 dB 26 dB 28 dB 29 dB						
@ 0° Above Horizon: 8 dB 7 dB 8 dB 18 dB 12 dB 11 dB						
@ 15° Above Horizon: 14 dB 15 dB 14 dB 16 dB 14 dB 12 dB						
@ 25° Above Horizon: 19 dB 19 dB 17 dB 17 dB 15 dB 15 dB						
LIGHTNING PROTECTION:						
LNA GAIN: 42 dB 42 dB 42 dB 43 dB 43 dB 43 dB						
LNA NOISE FIGURE (With Filter): 2.6 dB 2.6 dB 2.6 dB 2.9 dB 2.9 dB 2.9 dB						
LNA P1dB Out: +10 dBm +10 dBm +10 dBm +10 dBm +10 dBm +10 dBm						
LNA DC POWER: (3.3-24V) <50mA						
POWER HANDLING: 3 Watt CW (With Limiter)						

MECHANICAL:

- SIZE: DIAMETER: 3.68 in. [93.6mm]
HEIGHT: 1.31 in [32.3mm]
- WEIGHT: 13.8oz. (391.2 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 Bulkhead
(OPTION: SMA, N, QMA, SMB, SMC, SSMA, SSMB, SSMC, 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	PARTS LIST	PART NO	FINISH	ITEM NO
4	PAN HEAD SCREWS, 6-32, 3/4" L	McMaster P/N: 91735A151, Item 586-075			3
4	PAN HEAD SCREWS: 10-32, 3/4" L	McMaster P/N: 91735A831, Item 587-075			2
1	O-RING or GASKET, O-Ring Item 550	2-031/N766-76			1

UNLESS OTHERWISE SPECIFIED	ORIGINAL DRAWN	ORIGINAL DESIGNED	UPDATED	UPDATE DRAWN	APPROVED
DRAWING IS IN INCHES DIMENSIONS ARE IN DECIMALS FRACTIONS 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 7/8 DECIMALS .005 ± .01	S. HUYNH Mar-24-09	S. HUYNH Mar-24-09	S. HUYNH Sept-20-12	P. TRAN Sept-20-12	S. HUYNH Sept-20-12

ANTCOM CORP. TORRANCE CALIFORNIA

3.7in. DIAMETER
FIXED MOUNT
GNSS ANTENNA

REV: D | 3CVE1 | G8Ant-3A4TB1 | REV A

SCALE 1/1 | SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas