



FAA Approved Facility

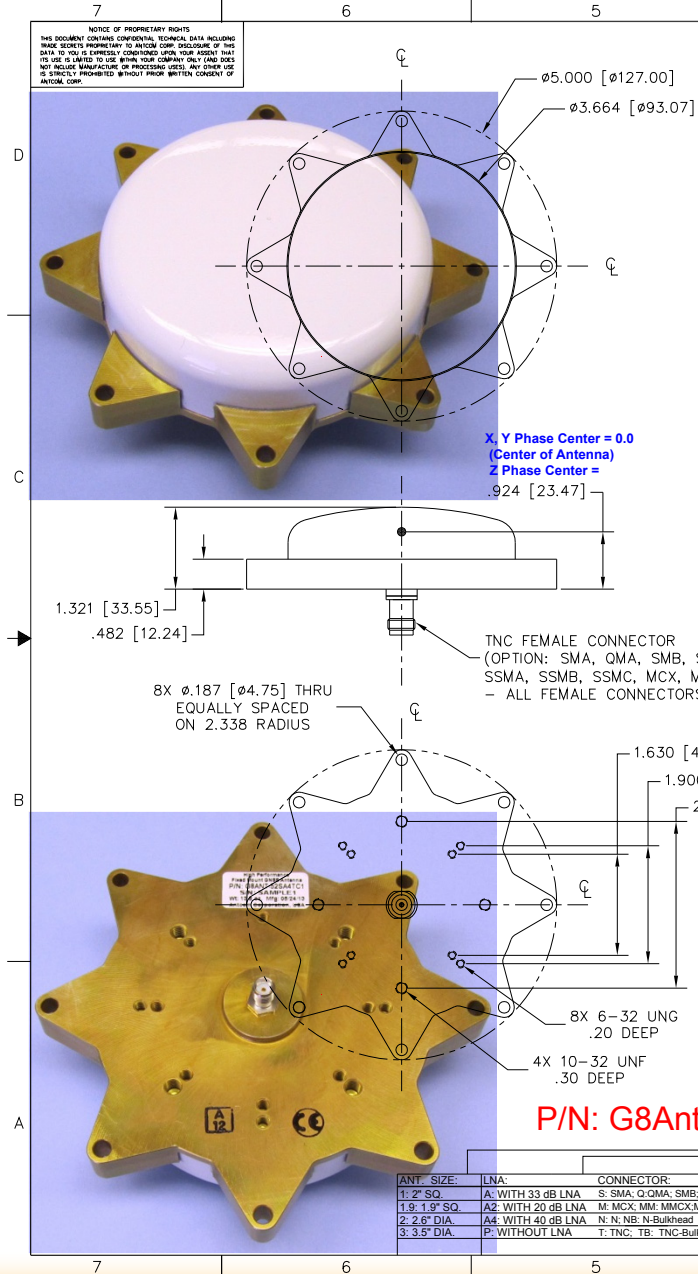
The FIXEDMOUNT IV New High Performance Fixed Mount GNSS Antenna P/N: G8Ant-52SA4TC1 Rev A For Multi-purpose Applications

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: **-24dB@1616MHz**, **-34dB@1625-1660MHz**
“-HFO” for Additional Omnistar Rejection: **-27dB@1545MHz**



ZONE	REV	REVISIONS			
		DESCRIPTION	DATE	APPROVED	

	L5 GPS E5, E5a, E5b Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1176.45 ± 12 MHz 1164.45 - 1219.14 MHz 1176.45 ± 12 MHz	1227.60 ± 12 MHz 1207.14 ± 10 MHz	1242 - 1252 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10 MHz	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	1598 - 1609 MHz
RADIATION PATTERN:	HEMISPHERICAL					
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 (dBi):						
@ 90° Above Horizon (Top):	+ 2.0	+ 3.3	+ 3.7	+ 4.1	+ 5.2	+ 5.7
@ 15° Above Horizon:	- 3.7	- 3.0	- 2.7	- 3.8	- 3.0	- 2.6
@ 20° Above Horizon:	- 2.9	- 2.3	- 1.9	- 3.0	- 2.1	- 1.7
@ 25° Above Horizon:	- 2.1	- 1.5	- 1.1	- 2.2	- 1.2	- 0.8
@ 30° Above Horizon:	- 1.7	- 1.0	- 0.6	- 1.4	- 0.4	- 0.0
@ 70° Above Horizon:	+ 1.4	+ 2.7	+ 3.1	+ 3.4	+ 4.5	+ 5.0
BEAM WIDTH (3dB):	100 Deg.	90 Deg.	86 Deg.	85 Deg.	82 Deg.	82 Deg.
AXIAL RATIO:	1 dB	1 dB	1 dB	1 dB	1 dB	1 dB
MULTIPATH REJECTION (RHCP/LHCP):						
@ 90° Above Horizon (Top):	28 dB	29 dB	27 dB	30 dB	33 dB	34 dB
@ 0° Above Horizon:	16 dB	16 dB	13 dB	13 dB	10 dB	9 dB
@ 15° Above Horizon:	15 dB	16 dB	14 dB	15 dB	14 dB	12 dB
@ 25° Above Horizon:	17 dB	18 dB	16 dB	17 dB	16 dB	15 dB
LIGHTNING PROTECTION:	DC GROUNDING					
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: 5.00 in. [127.0 mm]
HEIGHT: 1.32 in [33.55 mm]

WEIGHT: 14.5 oz. (411.1g)

FINISH: BASE: HARD BLACK ANODIZE PER MIL-A-8625F, TYPE III, CLASS 2
RADOME: SKYDROL RESISTANT POLYURETHANE ENAMEL 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, QMA, SMB, SMC, SSMA, SSMB, SSMC, MCX, MMCX)

ENVIRONMENTAL:

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

P/N: G8Ant-52SA4TC1

ANT. SIZE:	LNA:	CONNECTOR:	COLOR:
1: 2" SQ.	A: WITH 33 dB LNA	S: SMA; Q: QMA; SMB; SMCR: B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ.	A2: WITH 20 dB LNA	M: MCX; MM: MMCX; MMR: MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA.	A4: WITH 40 dB LNA	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA.	P: WITHOUT LNA	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
			-5: DESERT TAN #33446 PER FED-STD-595B

1	2
1	2
1	1
-2	

QNTY	DESCRIPTION	PART NO	REV

UNLESS OTHERWISE SPECIFIED	ANTCOM CORP.
TOLERANCES ARE:	TORRANCE CALIFORNIA
FRACTIONS: DECIMALS: ANGLES	
± 1/64 ± .015 ± 1°	
TOLERANCE SHOWN PER ANSI Y14.5	
REMOVE ALL BURRS	
REFINISH EXTERNAL EDGES .006 TO .015	
FILE TO .005 TO .010	
SCALE: UNLESS PER MIL-S-8879	
04'S ON A CORNER & 2' ON	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

DATE	QTY	DATE	REV

ANTCOM CORP.	
5.0in. DIAMETER FIXED MOUNT GNSS ANTENNA	
SCALE 1/1	SHEET 1 OF 1