



FAA Approved Facility

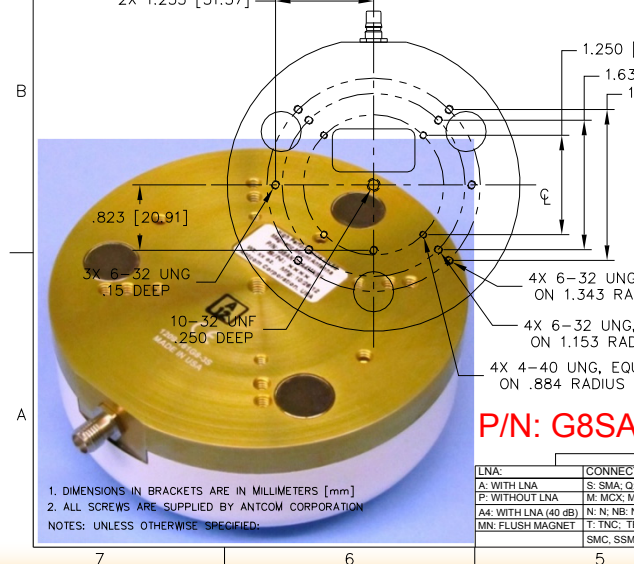
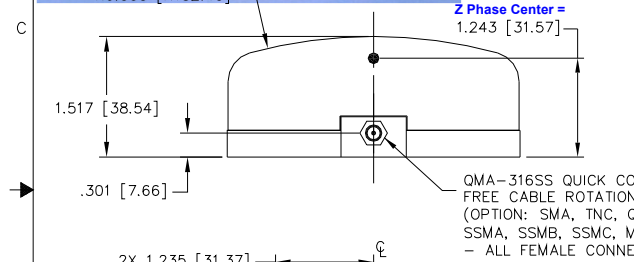
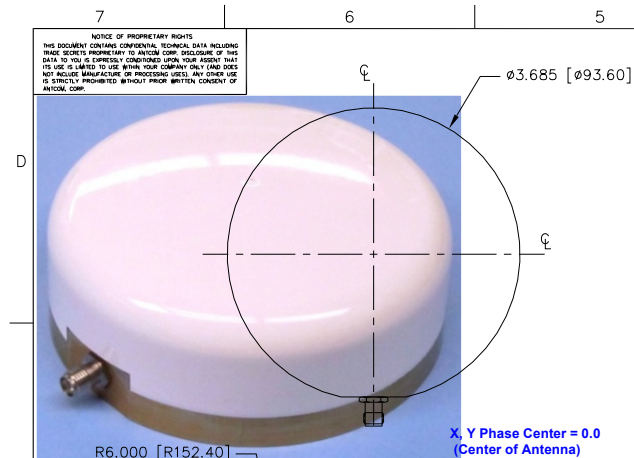
The PORTABLE New High Performance Magnetic Mount Portable GNSS +S-Band Antenna P/N: G8SAnt-3A4MNQ1 Rev A (3.7" Dia. X 1.31" Thick)

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 @ (1625-1660)MHz, -27dB @ 1545MHz
“-HFO” for Additional Omnistar Rejection: -27dB @ 1545MHz



	ELECTRICAL SPECIFICATIONS						
	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	S-Band
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	2493 ± 12 MHz
RADIATION PATTERN:	HEMISPHERICAL						
POLARIZATION:	RHCP						
VSWR:	< 2.0:1						
IMPEDANCE:	50 ohms						
ANTENNA GAIN (dBi):							
@ 90° Above Horizon (Top):	+ 0.2	+ 1.3	+ 1.4	+ 4.1	+ 4.9	+ 5.0	+ 4.1
@ 15° Above Horizon:	- 4.5	- 3.8	- 3.9	- 3.9	- 3.3	- 3.1	- 3.0
@ 20° Above Horizon:	- 3.5	- 2.9	- 3.0	- 3.1	- 2.5	- 2.3	- 2.1
@ 25° Above Horizon:	- 2.5	- 2.0	- 2.1	- 2.3	- 1.6	- 1.5	- 1.4
@ 30° Above Horizon:	- 2.2	- 1.7	- 1.8	- 1.5	- 0.8	- 0.7	- 0.7
@ 70° Above Horizon:	- 0.2	+ 0.8	+ 0.9	+ 3.4	+ 4.2	+ 4.4	+ 3.5
BEAM WIDTH (3dB):	124 Deg.	120 Deg.	120 Deg.	80 Deg.	80 Deg.	80 Deg.	90 Deg.
AXIAL RATIO:	1 dB	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	15 dB	15 dB	15 dB	
LIGHTNING PROTECTION:	DC GROUNDING						
LNA GAIN:	42 dB	42 dB	42 dB	43 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	2.9 dB
LNA P1dB Out:	+10 dBm	+10 dBm	+10 dBm	+10 dBm	+10 dBm	+10 dBm	+10 dBm
LNA DC POWER:	(3.3-24)V<50mA						
POWER HANDLING:	3 Watt CW (With Limiter)						

MECHANICAL:
 SIZE: DIAMETER: 3.68 in. [93.6mm]
 HEIGHT: 1.52 in [38.5mm]
 WEIGHT: 13.6oz. (385.5 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: QMA-316SS QUICK CONNECT, FREE CABLE ROTATION CONNECTOR (OPTION: SMA, SMB, SMC, SSMA, SSMB, SSMC, MCX, MMCX)

ENVIRONMENTAL:
 TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 VIBRATION: 70,000 ft.
 > 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	DESCRIPTION	PART NO	FINISH	REV NO
1	MAGNET COVER, Item 541g3	MAGNET-COVER-3		4
4	MOUNTING SCREWS: 4-40, 3/4"	MS24693-C8		3
4	MOUNTING SCREWS: 6-32, 3/4"	MS24693-C30		2
4	MOUNTING SCREWS: 10-32, 3/4"	MS24693C274		1

P/N: G8SAnt-3A4MNQ1

LNA:	CONNECTOR:	COLOR:
A: WITH LNA	S: SMA, Q: QMA, SMB, SMBR, B: BNC	-1: GLOSS WHITE #17925 PER FED-STD-595B
P: WITHOUT LNA	M: MCX, MM: MMCX/MMR: MMCX-R	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
AK: WITH LNA (40 dB)	N: N, NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34094 PER FED-STD-595B
MN: FLUSH MAGNET	T: TNC, TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	SMC, SSMC, SSMB, SSMA	-5: DESERT TAN #33446 PER FED-STD-595B

ANTCOM CORP. TORRANCE, CALIFORNIA

3.7in. DIAMETER
MAGNETIC MOUNT
GNSS + S-BAND ANTENNA

DATE: 03/30/11
SCALE: 1/1

APPROVED: S. HUYNH
DATE: Sept-12-12

DRAWING NO: G8SAnt-3A4MNQ1
SHEET 1 OF 1