



FAA Approved Facility

**2-Ports, Active L1 GPS & RHCP-Inmarsat/Iridium Antenna, P/N: S5G1516RR-AP-GMST-X, or
2-Ports, Active L1 GPS & LHCP-Thuraya Antenna, P/N: S5G1516RL-AP-GMST-X
(5.03"x2.08"x0.69"), Glass/Magnetic Mount Configuration**

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>

4x0.800 [20.32]

5.026 [127.66]

2.200 [55.88]

4x2.119 [53.82]

4x0.201 [0.511]

0.7390 [18.77]

0.505 [12.83] High Glass Mount Suction Cup

R6.000 [R152.40]

REMOVABLE MAGNETIC MOUNT

O-RING (2-038)

SPECIFICATIONS

ELECTRICAL:	IRIDIUM		GPS	
	FREQUENCY:	1610.0 - 1626.5 MHz	L1: (1575.42 ±13)	
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL	
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+4.6	+2.9
@ 10° Elevation:	-1.0	-2.5	-2.5	-1.8
@ 20° Elevation:	+1.5	-0.5	-1.1	+0.7
@ 30° Elevation:	+2.4	+1.0	+0.5	+1.7
@ 60° to 90° Elevation:	>+3.3	>+2.7	>3.6	>2.1
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °	146 °
AXIAL RATIO @ Zenith:	2 dB		2 dB	
POWER HANDLING:	30 W		1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING	
FILTER (REJ. @1616 MHz):			> 60 dB	
LNA GAIN:	N/A		(33.0+/-1.0) dB	
LNA P 1dB Out:	N/A		+16 dBm	
LNA NOISE FIGURE:	N/A		2.8 dB (Filter loss is Included)	
VOLTAGE/CURRENT:	N/A		(+2.8 TO +28) Volts DC / (30 TO 50) mA	

MECHANICAL:

SIZE: WIDTH:2.20 in. [55.88mm], LENGTH:5.026in [127.66mm], HEIGHT: 0.739 in. [18.77 mm]

WEIGHT: 8.0 oz. (226g)

FINISH: SKYDROLRESISTANTPOLYURETHANENAMEL BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6ALUMINUMALLOYBASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,ANDSKYDROLRESISTANCE, FIRE RETARDANT

CONNECTOR: GPS:SMA FEMALE, IRIDIUM:TNC FEMALE (OPTION:SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: GLASS/MAGNETIC MOUNT

ENVIRONMENTAL:

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

ALTITUDE: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLYSEALED

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	RECD	DESCRIPTION	PART NO	MATERIAL	FINISH	TREX NO
4		MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1						3
1		O-RING	2-038-N756-75	-	-	1
-2	-1					

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM/LNA:	CABLE LENGTH/MAG:	GPS/IRIDIUM/CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516 L1 GPS & IRIDIUM	A: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B	
1.9: 1.9" SQ. (FLAT)	1716 L1 GPS & IRIDIUM	P: WITHOUT LNA	M: WITH MAGNET	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM	N: WITHOUT MAGNET	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
3: 3.5" DIA. (FLAT)			T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B	
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
58: (HELIX BLADE)					
59: (HELIX HANDHELD)					

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS DECIMALS ANGLES

± 1/64 ± .005 ± .1°

REMOVE ALL SHARP BREAKS EXTERNAL EDGES .005 TO .015 FILED & .005 TO .010 SLOPE THROUGH PER ALL DIMENSIONS ON A COMMON MACHINED SURFACES

DO NOT SCALE DRAWING

NOTES: UNLESS OTHERWISE SPECIFIED:

- DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
- ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: S5GIR1516RR-AP-GMST-X

ANTCOM CORP. TORRANCE CALIFORNIA

(5.0 x 2.2 x 0.7) in
Glass/Magnetic Mount
GPS/IRIDIUM ANTENNA

DATE: 01 DEC 13 2012
DRAWN: S. HUYNH
CHECKED: S. HUYNH
APPROVED: S. HUYNH
SCALE: 1/1

SHEET 1 OF 1

NMO Connector is Now Available for Some Antennas