



**Active GPS & (IRIDIUM /Inmarsat or Thuraya) Antenna**  
**(5.03"x2.08"x0.69"), Magnetic Mount, Side Connector, P/N: S5GIR1516RR-AP-MST-X**  
**With BNC, TNC, SMA, N Connector Options.**



ISO 9001:2008/FAA Approved Facility

Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: [antennas@antcom.com](mailto:antennas@antcom.com) . <http://www.antcom.com>

4x.800 [20.32]

5.026 [127.66]

2.200 [55.88]

4x2.119 [53.82]

.739 [18.77]

4x.201 [Ø5.11]

R6.000 [R152.40]

**SPECIFICATIONS**

**ELECTRICAL:**

	IRIDIUM		L1 OR L1/L2 GPS			
FREQUENCY:	(1610.0 - 1626.5) MHz		L1: (1575.42 ±13)   L2: (1227.60 ±13) MHz			
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.	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+4.6	+2.9	+1.8	+5.3
@ 10° Elevation:	-1.0	-2.5	-2.5	-1.8	-4.2	-2.3
@ 20° Elevation:	+1.5	-0.5	-1.1	+0.7	-2.9	+0.4
@ 30° Elevation:	+2.4	+1.0	+0.5	+1.7	-2.0	+2.3
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6	> 2.1	> 0.9	> 3.2
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °	146 °	108 °	74 °
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. [55.88 mm], LENGTH: 5.026 in. [127.66 mm], HEIGHT: 0.739 in. [18.77 mm]

WEIGHT: 8.0 oz. (226 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL BASE IRIDITE PER MIL-C-5441

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

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

MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

**ENVIRONMENTAL:**

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

ALTITUDE: 70,000 ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

**FEDERAL & MILITARY SPECIFICATIONS:**

DESIGN TO: FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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

**CONNECTIONS:**

CONFIGURATION	FREQ. BAND	GPS/IRIDIUM / LNA	CABLE'S LENGTH/MAG.	GPS/IRIDIUM / CONNECTOR	COLOR
1: 2" SQ. W/RT	1516: L1, GPS & IRIDIUM	A: WITH LNA	M: WITH MAGNE T	S: SMA; P: PINS	1: GLOSS WHITE #17926 PER FED-STD-595B
1.9: 1" SQ. FLAT	1216: L1/L2 GPS	P: WITHOUT LNA	N: WITHOUT MAGNET	M: MCX; MM; MMCX	2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM			N: N; N: 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 ARING (FLAT)					
5: (HELIX ROD)					
5B: (HELIX BLADE)					
5D: (HELIX HANDHELD)					

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

**ANTCOM CORP.** TORRANCE CALIFORNIA  
**FLAT MAG MOUNT ACTIVE IRIDIUM/L1/L2 GPS ANTENNA**

P/N: S5GIR1516RR-AP-MST-X

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas