

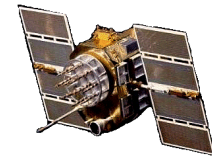


ISO 9001:2008/FAA Approved Facility

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.



Antenna Mounts: <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>

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.739 in. [18.77 mm]
 8.0 oz. (226 g)

WEIGHT: 8.0 oz. (226 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDIUM 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

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			

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

GPS: SMA MALE CONNECTOR (OPTION:TNC, TNC Bulkhead, N, N Bulkhead MCX, MMCX or Cable) (+2.5 to +30) Volts DC

O-RING (2-038)

REMOVABLE MAGNETIC MOUNT

4x.800 [20.32]

4x2.119 [53.82]

4x.201 [Ø5.11] √ Ø.385 [Ø9.78] X 100" for 10-32 MOUNTING SCREWS

5.026 [127.66]

2.200 [55.88]

.739 [18.77]

R6.000 [R152.40]

.330 [8.38]

.330 [8.38]

CONNECTION TABLE:

CONFIGURATION	FREQ. BAND	GPS/IRIDIUM LNA	CABLE'S LENGTH/MAG.	GPS/IRIDIUM CONNECTOR	COLOR
1: 2' 30" HELIX	1518: L1/GPS & IRIDIUM	A: WITH LNA	M: WITH MAGNE T	S: SMA; P: PINS	-1: GLOSS WHITE #1725 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; 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 ARING (FLAT)					
5: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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

P/N: S5GIR1516RR-AP-MST-X

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

PARTS LIST

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

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT MAG MOUNT ACTIVE IRIDIUM/L1/L2 GPS ANTENNA

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES UNLESS OTHERWISE SPECIFIED ANGLES ± 1/64 DECIMALS ± .1° FRACTIONS ± .005 PER AMS 174.5 REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 FILE ALL SHARP CORNERS .015 TO .020 DIPS ON A COMMON 8° ± .000 MACHINED SURFACES ± .000

DO NOT SCALE DRAWING

APPROVED: S. HUYNH DEC-13-02

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas