



Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna: (5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-A2P-XTT-X With BNC, TNC, SMA, N Connector Options.



ISO 9001:2008/FAA Approved Facility Antenna Mounts/Adapters: <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 . <http://www.antcom.com>

Dimensions:
 Length: 5.026 [127.66]
 Width: 2.200 [55.88]
 Thickness: 0.721 [18.31]
 Mounting hole offset: 4x2.119 [53.82]
 Mounting hole diameter: 4x0.201 [0.511]
 Mounting hole depth: 0.572 [14.53]
 Mounting hole diameter: 0.148 [3.77]
 Mounting hole offset: 0.784 [19.91]
 Mounting hole diameter: 0.143 [3.63]
 Mounting hole offset: 0.937 [23.80]
 Mounting hole diameter: 0.406 [10.31]
 Mounting hole offset: 0.721 [18.31]
 Mounting hole diameter: 0.572 [14.53]
 Mounting hole offset: 0.784 [19.91]
 Mounting hole diameter: 0.148 [3.77]
 Mounting hole offset: 0.937 [23.80]
 Mounting hole diameter: 0.406 [10.31]

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, 20dB (-A2- Option)			
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: 5.026 in. [127.66mm], HEIGHT: 0.721 in. [18.31mm]

WEIGHT: 8.3 oz (235 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

CONNECTOR: IRIDIUM: TNC FEMALE (J1, Red); GPS: TNC FEMALE (J2, Blue)

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: 70,000ft.

VIBRATION: > 30 G's

LEAKAGE: HERMETICALLY SEALED

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

CONFIGURATION	FREQ BAND	GPS/IRIDIUM/NA	CABLE LENGTH	GPS/IRIDIUM CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1518: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	1: GLOSS WHITE #17929 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: MCM; MM: MMCX		2: LUSTERLESS GRAY #3320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM	N: WITH MAG. MOUNT	N: N; NB: N: Bulkhead		3: OLIVEDRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)		A2: WITH 20dB LNA	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

P/N: S5GIR1516RR-A2P-XTT-X

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

UNLESS OTHERWISE SPECIFIED		ANTCOM CORP.	
DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED	ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTIONS SHALL BE IN 16ths	TOLERANCE 1/16" PER ANSI Y14.5	FLAT FIXED MOUNT ACTIVE IRIDIUM/GPS ANTENNA	
DECIMALS SHALL BE TO 0.0005	DECIMALS SHALL BE TO 0.0005	PART NO: S5GIR1516RR-A2P-XTT-1	
ANGLES SHALL BE TO 1°	ANGLES SHALL BE TO 1°	SCALE: 1/1	
DO NOT SCALE DRAWING	DO NOT SCALE DRAWING	SHEET 1 OF 1	