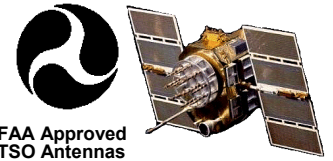




Active L1 GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna
 (5.03"x2.08"x0.69"), Flat/Pipe mount, P/N: S5GIR1516RR-AP-XTT-X
 With BNC, TNC, SMA, N Connector Options.



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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GPS: TNC Female (J2, Blue)
IRIDIUM: TNC Female (J1, Red)
O-RING (2-038)
DATE STAMP/NAMEPLATE

(+2.5 to +30) Volts DC

P/N: S5GIR1516RR-AP-XTT-X

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

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. [55.88 mm], LENGTH:5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]
WEIGHT:	8.3 oz (235 g)
FINISH:	SKYDROLRESISTANTPOLYURETHANEENAMEL,AND NICKEL PLATING
MATERIAL:	6061-T6ALUMINUMALLOYBASE COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,ANDSKYDROLRESISTANCE, FIRE RETARDANT
CONNECTOR:	IRIDIUM:TNC FEMALE (J1, Red); GPS:TNC FEMALE (J2, Blue)
MOUNTING:	FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTINGSCREWS PROVIDED
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	DESCRIPTION	PART NO	MATERIAL	FINISH	UNIT
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	3

CONFIGURATION	FREQ. BAND	GPS/IRIDIUM/LNA	CABLE LENGTH	GPS/IRIDIUM/CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	S: SMA-P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216: L1/L2 GPS	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX: MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		#: CABLE LENGTH (IN)	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)					
5D: (HELIX HANDHELD)					

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS IN INCHES
 DECIMALS: ± .010
 FRACTIONS: ± 1/64
 TOLERANCE 8TH PER AND 1/16
 REMOVE ALL SHARP BREAKS
 BREAKS: 0.005 TO 0.016
 FILTERS: 0.005 TO 0.016
 SOLDER: 60/40 PER MIL-STD-2079
 FINISH ON A CORNER TO 1/16
 MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA
 FLAT FIXED MOUNT ACTIVE IRIDIUM/GPS ANTENNA
 S. HUYNH DEC-13-02
 3CVE1 S5GIR1516RR-AP-XTT-1
 SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas