



FAA Approved Facility

**2-Ports, Active L1/L2 GPS & RHCP-Inmarsat/Iridium Antenna, P/N: S5G1216RR-AP-XST-X, or
2-Ports, Active L1/L2 GPS & LHCP-Thuraya Antenna, P/N: S5G1216RL-AP-XST-X
(5.03"x2.08"x0.69"), Flat, Top/Pipe Mount, Bottom Connector 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>

7 6 5 4 3 2 1

5.026 [127.66]

4X.800 [20.32]

2.200 [55.88]

4x2.119 [53.82]

.721 [18.31]

4x.201 [Ø5.11]
for 10-32 MOUNTING SCREWS

Ø.385 [Ø9.78] X 100"
R6.000 [R152.40]

0.57" [14.53](TNC), 0.72" [18.29](N,N-Bulkhead)
0.357"[9.07](SMA), 0.83"[21.00](TNC-Bulkhead), D.200" [5.08](MCX)

.784 [19.91]
.148 [3.77]

.937 [23.80]
.143 [3.63]

0-RING (2-Ø38)

GPS: SMA Female (OPTION: TNC, N, MCX)
(+2.5 to +30) Volts DC

DATE STAMP/ NAMEPLATE

Iridium: TNC Female (OPTIO N: SMA, N, MCX)

CONFIGURATION: FREQ. BAND

1: 2" S. (FLAT) 1516: L1 GPS&IRIDIUM

1.9: 1.9" S. (FLAT) 1216: L1 GPS

2: 2.6" DIA. (FLAT) GPS&IRIDIUM

3: 3.5" DIA. (FLAT)

4: MINI ARING (FLAT)

53: (HELIX ROD)

5B: (HELIX BLADE)

3D: (HELIX HANDHELD)

CABLE'S LENGTH: X: NO CABLE S: SMA; P: PINS M: WITH MAG. MOUNT N: N; NB: N-Bulkhead R: RIGHT ANGLE CON. T: TNC; TB: TNC- Bulkhead

COLOR: -1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B

P/N: S5GIR1216RR-AP-XST-X

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

SPECIFICATIONS

ELECTRICAL:	IRIDIUM		L1 OR L1/L2 GPS		
	(1610.0 - 1626.5) MHz		L1: (1575.42 ±13) L2: (1227.60 ±13) MHz		
FREQUENCY:	HEMISPHERICAL		HEMISPHERICAL		
RADIATION PATTERN:	RHCP		RHCP		
POLARIZATION:	< 1.5:1		< 1.5:1		
VSWR:	4 ft G.P.	FreeSpace	F.S.	4 ft G.P.	F.S.
GAIN (dB):	+4.9	+5.0	+4.6	+2.9	+1.8
@ 90° (Zenith):	-1.0	-2.5	-2.5	-1.8	-4.2
@ 10° Elevation:	+1.5	-0.5	-1.1	+0.7	-2.9
@ 20° Elevation:	+2.4	+1.0	+0.5	+1.7	-2.0
@ 30° Elevation:	>+3.3	>+2.7	>3.6	>2.1	>0.9
@ 60° to 90° Elevation:	129°		98°-106°	103°	146°
BEAMWIDTH(3dB):	2 dB		2 dB		
AXIAL RATIO @ Zenith:	30 W		1 Watt		
POWER HANDLING:	DC GROUNDING		DC GROUNDING		
LIGHTNING PROTECTION:	> 60 dB		> 60 dB		
FILTER(REJ. @1616MHz):	N/A		(33.0+/-1.0) dB		
LNA GAIN:	N/A		N/A		
LNA P 1dB Out:	N/A		+16 dBm		
LNA NOISEFIGURE:	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. [18.31 mm]

WEIGHT: 8.0 oz. (226 g)

FINISH: SKYDROLRESISTANTPOLYURETHANEENAMEL
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: FAATSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	3
1	ADHESIVE GASKET	12345G-3M-4G	-	-	3
1	O-RING	2-Ø38-N756-75	-	-	1

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. TOLERANCE .010 PER AS9145

FRAC TIONS: DEC. PL. ANGLES: ± 1/64 DEC. PL. ANGLES: ± 1'

REMOVE ALL BURRS BREAK EXTERNAL EDGES .005 TO .015 CLEAR OF ALL DIMENSIONS FOR ALL DIMENSIONS ON A COMPLEX PART

TELEPHONE: 310 PER AS9145

ENGINEER: S. HUYNH

APPROVED: DEC-13-02

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

FLAT FIXED MOUNT ACTIVE IRIDIUM/L1/L2 GPS ANTENNA

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas