



Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna (4.2"x2.2"x0.7"), Back Mount, P/N: S4.2GIR1516RR-AP-XST-X



ISO 9001:2008/FAA Approved Facility

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

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SPECIFICATIONS

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.
@ 90° (Zenith):	+5.0	+5.0	+4.6
@ 10° Elevation:	-1.0	-2.5	-2.5
@ 20° Elevation:	+1.5	-0.5	-1.1
@ 30° Elevation:	+2.4	+1.0	+0.5
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °
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	

ELECTRICAL:

MECHANICAL:

SIZE: WIDTH: 2.21 in. [56 mm], LENGTH: 4.15 in [106 mm], HEIGHT: 0.72 in. [18 mm]

WEIGHT: 7.84 oz. (222 g)

FINISH: SKYDROLRESISTANTPOLYURETHANEENAMEL, 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: SMA FEMALE (J2, Blue) (OPTIONAL: SMA, TNC, MCX, MMCX, N OR CABLE)

MOUNTING: FLAT FIXED BACK MOUNT with O-RING

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

CONFIGURATION:

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	MN: Flush 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: OLIVE DRAB GREEN #34031 PER FED-STD-595B	
3: 3.5" DIA. (FLAT)		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)					
4.2: 4.2 in x 2.2 in Flat					

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	1			

PARTS LIST

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	REV
1	O-RING	2-038-N756-75			1

ANTCOM CORP. TORRANCE CALIFORNIA

(4.2 x 2.2 x 0.7) in Flat/Back Mount GPS/IRIDIUM ANTENNA

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES ANGLES ARE IN DEGREES DECIMALS ARE ± 1/64 FRACTIONS ARE ± 1/1000 UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS [mm] 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

APPROVED: S. HUYNH Apr-27-07

SCALE: 1/1

SHEET 1 OF 1

P/N: S4.2G1516RR-AP-XST-X

NMO Connector Option is Now Available for Some Antennas