



ISO 9001:2008/FAA Approved Facility

Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna:
P/N: 1.5GIR1516RR-AP-XSS-4, (3.6" x 1.5" x 0.6"), Front/Back
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, USA . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

2x8-32 Thru. Top for Optional Mounting

3.642 [92.51]

R.407 [R10.34]

1.564 [39.73]

2xø.281 [ø7.14] 82° C-Sink for Optional 6-32 Flat Head Mounting Screws

.631 [16.03]

IRIDIUM: SMA MALE with 20in Cable, (OPTION: SMA, TNC Bulkhead, N, N Bulkhead, MCX, MMCX)

GPS: SMA MALE with 20in Cable, (OPTION: TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX) (+2.5 to +30) Volts DC

.143 [3.63]

10x .593 [15.06]

Optional Mounting: BX 2-56 Top X 0.118 Deep

.896 [22.76]

4x.446 [11.33]

.937 [23.80]

4x1.632 [41.45]

SPECIFICATIONS

ZONE	REVISIONS			
	REV	DESCRIPTION	DATE	APPROVED

	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: 1.56 in. [39.7 mm], LENGTH: 3.64 in [92.5 mm], HEIGHT: 0.63 in. [16.0 mm]
WEIGHT:	3.5 oz. (99 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: SMA MALE (J1, Red); GPS: SMA MALE (J2, Blue)
MOUNTING:	FLAT FRONT (2 x 6-32 SCREWS), BACK (4 x 2-56 SCREWS), or FLUSH MAGNET
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

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S 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
1.8-1.9" 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)	1625: GLOBALSTAR	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)	1523: GPS & XM				
53: (HELIX ROD)	1525: GPS & WI-FI				
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
4					5
1					3
					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		FRACTIONS DECIMALS ANGLES	
2 1/64	0.03125	0.001	1°
TOLERANCE SURF PER ANSI Y14.5			
REMOVE ALL BURRS			
BREAK OFF EDGES TO 0.015			
SMALL DIMENSIONS PER MIL-S-8879			
DATA ON A CONFORM 2 OF 2009			
MACHINED SURFACES			
DO NOT SCALE DRAWING			

ANTCOM CORP. TORRANCE CALIFORNIA

Low Profile Ruggedized Active GPS/IRIDIUM Antenna

REV	DATE	BY	CHK
D	3CVE1	S. HUYNH	Jan-06-14

SCALE 1/1 SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas