

GPS/IRIDIUM Antenna, P/N: 91G1516RR-AP-XBB-X Rev C
1.36" Diameter x 8.6" Tall, C130/Sextant Port with Lock-Pin Configuration
with BNC, TNC, SMA or N Connector Options

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

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY(MHz):	(1575.42 ±15)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1616)	(1610-1626)
GAIN (dBic) in FS/4ft GP	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM
@ 90° (Zenith):	-1.9/+0.7	-2.3/-1.5	-3.3/-3.0	-2.5/-0.1	-2.9/-1.9
@ 10° Elevation	-3.9/-3.0	-4.6/-4.3	-4.9/-4.0	-4.3/-2.8	-3.6/-3.8
@ 20° Elevation	-3.2/-1.0	-3.8/-2.0	-4.1/-1.8	-3.5/-0.6	-3.8/-1.8
@ 30° Elevation	-2.7/-1.0	-3.2/-2.0	-3.8/-2.6	-2.9/-0.9	-3.7/-1.9
@ 45° Elevation	-2.4/-1.5	-2.7/-2.4	-3.7/-3.8	-3.1/-2.0	-3.3/-3.3
@ 70° Elevation	-2.7/-1.7	-2.7/-2.6	-4.6/-3.0	-3.3/-1.9	-3.7/-3.0
BEAM WIDTH(3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.
AXIAL RATIO(dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3
RADIATION PATTERN:	HEMISPHERICAL				
POLARIZATION:	RHCP				
VSWR:	< 1.5:1				
DC GROUNDING	YES (LIGHTNING PROTECTION)				

LNA OPTION

LNA GAIN:	33 dB	35 dB
LNA NOISE FIGURE:	3.0 dB	3.0 dB
LNA P1dB Out:	+13 dBm	+13 dBm
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA	
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB	-40 dB / -40 dB
@ (-100/+100) MHz	< -65 dB	< -65 dB
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)	

MECHANICAL:

SIZE: DIAMETERS= 1in [25mm], 1.36in[35mm], 2.6in [64mm]
 HEIGHT = 8.614 in. [218.79 mm]

WEIGHT: 7.8 oz. (220 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

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

CONNECTOR: BNC CONNECTORS
 (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

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

ACCEPTANCE TEST PROCEDURE ATP-GPS-L1L2-100

QTY	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
1	1					1
-2	-1					

P/N: 91G1516RR-AP-XBB-4

CONFIGURATION	FREQ. BAND	POLARIZATION	GPS/IRIDIUM LNA
1: 2" SQ. (PLAT)	1518: L1 GPS & IRIDIUM	RR: RHCP/RHC P	A: WITH LNA
1.8: 1.8" SQ. (PLAT)	1218: L1 L2 GPS	BL: RHCP/LHC P	P: WITHOUT LNA
2: 2" DIA. (PLAT)	GPS & IRIDIUM	LL: LHCP/LHC P	
3: 3.5" DIA. (PLAT)		LR: LHCP/RHC P	A2: WITH 20dB LNA
4: MINF ARRNG (PLAT)			
(D): HELIX ROD			
(SB): HELIX BLADE			
5: 8" (PLAT)			
(B1): Standard Pin			

CABLE LENGTH	GPS/IRIDIUM CON	COLOR
X: NO CABLE	S: SMA; B: BNC Female	-1: GLOSS WHITE #1792SPERFED-STD-595B
M: MAG; N: No MAG	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320PER FED-STD-595B
F: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031PER FED-STD-595B
R: RIGHT ANGLE CON	T: TB; TNC; TNC-Bulkhead	-4: LUSTERLESS BLACK #37038PER FED-STD-595B

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS: DECIMALS: ANGLES
 ± 1/64 .005 ± 1°
 .005 .005 .005

TOLERANCE SURF PER ANSI Y14.5
 FINISH: ALL SURF
 BREAK EXTERIOR EDGES .005 TO .015
 SREW THREADS PER MIL-S-8879
 DR'S ON A CONFORM TO 2015
 MACHINED SURFACES

DO NOT SCALE DRAWING

<p align="center">ANTCOM CORP. TORRANCE, CALIFORNIA</p> <p align="center">C130/SEXTANT PORT ACTIVE L1 GPS/IRIDIUM HELIX ANTENNA</p>		<p>DATE: 01-20-08</p> <p>BY: [Signature]</p> <p>CHK: [Signature]</p>
<p>SCALE: 1/1</p>	<p>SHEET 1 OF 1</p>	<p>DATE: 01-20-08</p> <p>BY: [Signature]</p> <p>CHK: [Signature]</p>