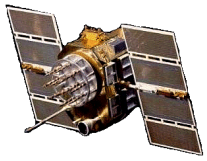
GPS/IRIDIUM Antenna, P/N: 11G1516RR-AP-XBB-X Rev D

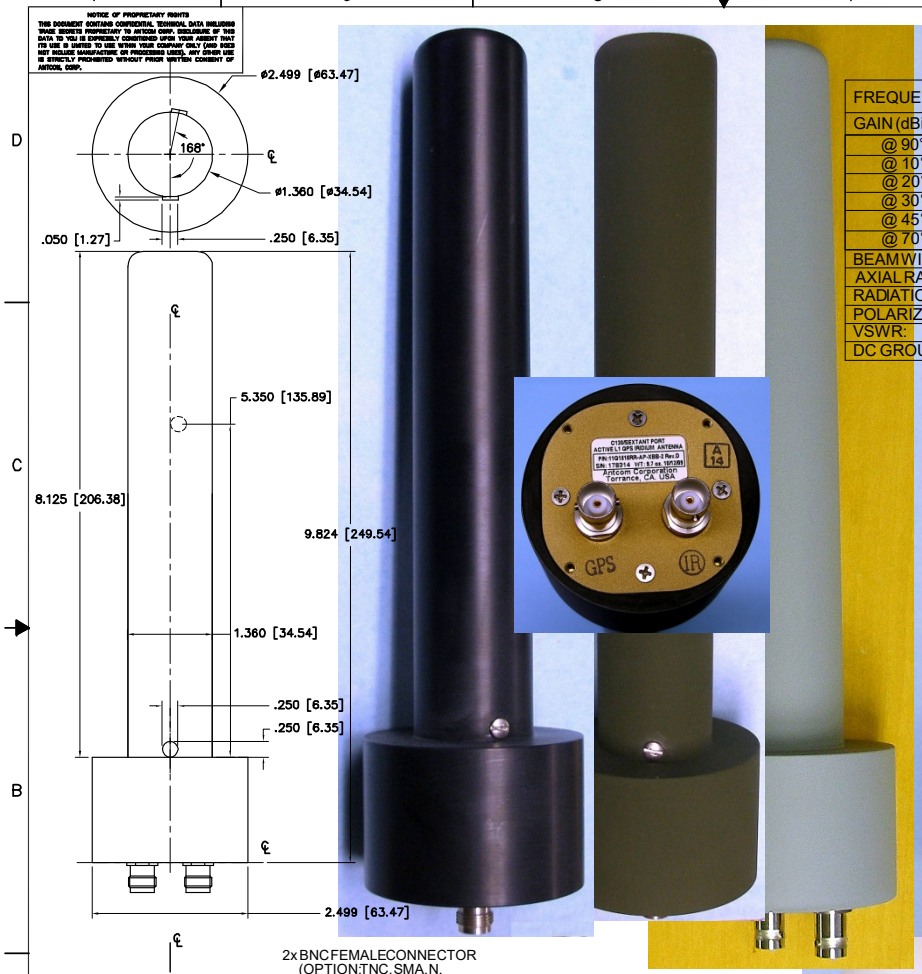
1.36" Diameter x 9.8" Tall, C130/Sextant Port with 2 Lock-Pin Configuration with BNC, TNC, SMA or N Connector Options

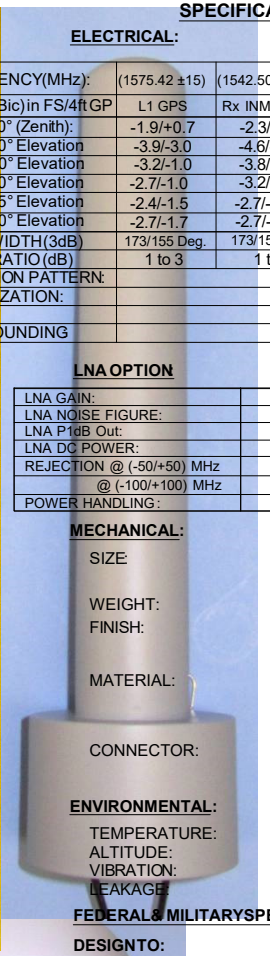


ISO 9001:2008/FAA Approved Facility

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

ANTCOM CORPORATION . 367 Van Ness Way, #602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . http://www.antcom.com





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 (LIGHTNINGPROTECTION)					

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= 1.36in[35mm], 2.6in [64mm]
HEIGHT= 9.824 in. [249 mm]

WEIGHT: 9.8 oz. (277 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

CONFIGURATION :	FREQ. BAND :	POLARIZATION :	GPS/IRIDIUM LNA:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIU M	RR: RHCP/RHC P	A: WITH LNA
1.9: 1.9" SQ. (FLAT)	1218: L1/L2 GPS	RL:RHCP/LHC P	P: WITHOUT LNA
2: 2.6" DIA. (FLAT)	GPS & IRIDIU M	LL:LHCP/LHC P	A2: WITH 20dB LNA
3: 3.5" DIA. (FLAT)		LR:LHCP/RHC P	
4: MINI ARINC (FLAT)			
53: (HELIX ROD)			
5B: (HELIX BLADE)			
5: 5" (FLAT)			
91, 11: Sextant Port			

P/N: 11G1516RR-AP-XBB-4

P/N: 11G1516RR-AP-9SS-2-U

CABLE'S LENGTH	GPS/IRIDIUM CON	COLOR
X: NO CABLE	S: SMA; B: BNC Female	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: MAG., N: No MAG.	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
#: CABLE LENGTH (IN)	N, NB: N, N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T, TB: TNC, TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

ITEM NO	QUANTITY REQD	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH
1	1			–	–	–

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°. TOLERANCE SYM PER ANSI Y14.5. REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .000 TO R .020. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON ℄ ⌀.005. MACHINED SURFACES 125/. DO NOT SCALE DRAWING. DRAWN. CHECKED. ENGINEER. APPROVED S. HUYNH OCT-20-08. CAD FILE NO.

ANTCOM CORP. TORRANCE, CALIFORNIA

C130/SEXTANT PORT ACTIVE L1 GPS/IRIDIUM HELIX ANTENNA

SIZE D | CAGE NO 3CVE1 | DRAWING NO 11G1516RR-AP-XBB-4 | REV D

SCALE 1/1 | SHEET 1 OF 1

ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	ADD on BNC Connector Option	Oct-20-08	S.H
	C	1 Bottom LOCKING PIN	Nov-24-09	S.H
	D	2 LOCKING PIN	Jan-20-09	S.H

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas