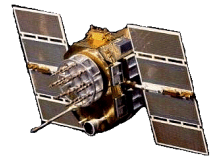




GPS/IRIDIUM Antenna, P/N: 11G1516RR-AP-XBB-X Rev D
1.36" Diameter x 9.8" Tall, C130/Sextant Port with 2 Lock-Pin Configuration
with BNC, TNC, SMA or N Connector Options



ISO 9001:2008/FAA Approved Facility Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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OPTIONAL PORT ACTIVE L1 GPS/IRIDIUM ANTENNA
 HELIX RADOME-IMPACT/ABRASION,UV, SOLVENT, SKYDROLRESISTANCE,AND FIRE RETARDANT
 EN: 11814 WTS: 87.24 (2070)
 TORRANCE, CA USA

2x BNC FEMALE CONNECTOR
 (OPTION: TNC, SMA, N, N Bulkhead, MCX, MMCX, or Cable)

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 NOTES: UNLESS OTHERWISE SPECIFIED:

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

WEIGHT: 9.8 oz (277 g)

FINISH: SKYDROLRESISTANTPOLYURETHANEENAMEL
 BASE IRIDIUM PER MIL-C-5441

MATERIAL: 6061-T6ALUMINUMALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT,
 SKYDROLRESISTANCE, 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, DO-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	REF
1	1					1
-2	-1					1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS DECIMALS ANGLES
 ± 1/64 ± .015 ± .010 ± 1°

TOLERANCE 5TH PER ANS Y14.5
 SURFACE FINISH PER MIL-C-13000
 DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED
 DIMENSIONS FOR HOLE & PIN DIA. ARE TO SURFACE UNLESS OTHERWISE SPECIFIED
 HATCHED SURFACES TO BE MACHINED

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA
 C130/SEXTANT PORT ACTIVE L1 GPS/IRIDIUM HELIX ANTENNA
 D 3CVE1 11G1516RR-AP-XBB-4 D
 SCALE 1/1 SHEET 1 OF 1

REVISIONS

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

CONFIGURATION

CONFIGURATION	FREQ. BAND	POLARIZATION	GPS/IRIDIUM LNA
1: 2" SQ. (PLAT)	1518- L1 GPS & IRIDIUM	RR- RHCP/RHIC P	A: WITH LNA
1.5: 1.5" SQ. (PLAT)	1210- L1&2 GPS	BL- RHCP/RHIC P	P: WITHOUT LNA
2: 2" DIA. (PLAT)	GPS & IRIDIUM	LL- LHCP/LHIC P	
3: 3.5" DIA. (PLAT)		LL- LHCP/RHIC P	A2: WITH 20dB LNA
4: MINI AIRING (PLAT)			
(D): HELIX ROD			
(SB): HELIX BLADE			
5: 5" (PLAT)			
(D): 11" Section Pin			

CABLE LENGTH

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
F: 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

COLOR

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

NMO Connector Option is Now Available for Some Antennas