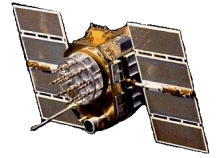




L1/L2 GPS Antenna, P/N: 11G1215A-XB-X Rev D

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>

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Technical drawing showing dimensions and connector options. Key dimensions include: diameter 1.360 [34.54], total height 9.824 [249.54], and base diameter 2.499 [63.47]. Connector options include BNC Female, TNC, SMA, N, N Bulkhead, MCX, and MMCX.

Photograph of the antenna showing its cylindrical shape and base.

SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	INMARSAT Rx: (1542.50 ±17.5) MHz		
	INMARSAT Tx: (1642.50 ±17.5) MHz		
	GPS L1: (1575.42 ±13) MHz	GPS L2: (1227.60 ±13) MHz	
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL
POLARIZATION:	RHCP		RHCP
VSWR:	< 1.5:1	< 1.5:1	< 2.0:1
GAIN(dBic)	GPS L1	Satcom Tx	Satcom Rx
@ 90° (Zenith):	+2.6	-4.2	-0.7
@ 10° Elevation	0.0	-6.7	-4.2
@ 20° Elevation	+1.2	-5.6	-2.9
@ 30° Elevation	+1.7	-4.9	-2.1
@ 45° Elevation	+2.4	-4.9	-1.4
@ 70° Elevation	+2.3	-5.4	+0.1
BEAMWIDTH(3dB)	165 Deg.	155 Deg.	142 Deg.
AXIAL RATIO(dB)	1 to 3	1 to 3	1 to 4

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: SKYDROL RESISTANT POLYURETHANE ENAMEL
BASE IRIDIUM PER MIL-C-5441

COLOR: OLIVE DRAB GREEN #34031 PER FED-STD-595B

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

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

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	UNIT
1	1					1
-2	-1					1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .010 ± 1°
TOLERANCE SURF PER ANS Y14.5
SURF FINISH PER MIL-STD-883C
MATERIAL SPEC PER MIL-STD-883C
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MATERIAL SPEC PER MIL-STD-883C

ANTCOM CORP. TORRANCE, CALIFORNIA
C130/Sextant Port
ACTIVE L1/L2
GPS HELIX ANTENNA

DO NOT SCALE DRAWING

SCALE 1/1

SHEET 1 OF 1

P/N: 11G1216A-XB-4

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; B: BNC Female	-1: GLOSS WHITE #1792SPER 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

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

NMO Connector Option is Now Available for Some Antennas