



FAA Approved Facility

# GPS/RHCP-Inmarsat/Iridium Antennas, P/N: 2G1216P-XTBC-X Rev A

## LHCP-Thuraya only Antennas, P/N: 2T1516P-XTBC-X Rev A

### 2.6" Diameter, Flat, Bulkhead/Back Mount, Center Connector Configurations

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



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#### SPECIFICATIONS

**ELECTRICAL:**

FREQUENCY (MHz):	L1/L2 GPS				Rx/Tx INMARSAT/GLONASS/IRIDIUM		
	L1: (1575.42 ±12)	L2: (1227.60 ±12)	(1542.50 ±17.5)	(1642.50 ±17.5)	(1602-1626)		
ANTENNA GAIN (dBic):	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	4 ft G.P.	3.5" Dia. GP	Free Space	3.5" Dia. GP
@ 90 ° (ZENITH):	+ 5.5	+ 4.5	+ 3.3	+ 4.9	+ 3.1	+ 3.4	+ 4.3
@ 10 ° Elevation:	- 1.2	- 1.4	- 3.8	- 3.6	- 3.7	- 3.1	- 2.2
@ 20 ° Elevation:	+ 0.3	+ 1.4	- 2.0	- 0.1	- 2.0	- 1.1	- 0.6
@ 30 ° Elevation:	+ 1.8	+ 2.2	- 0.5	- 1.8	- 1.3	0.0	+ 0.8
@ 60 - 90 ° Elevation:	> 4.8	> 3.8	> 2.7	> 3.0	> 2.0	>+2.6	>+3.5
BEAM WIDTH (3dB):	106 Deg.	130 Deg.	106 Deg.	75 Deg.	106 Deg.	106 Deg.	106 Deg.
RADIATION PATTERN:	HEMISPHERICAL						
POLARIZATION:	RHCP						
VSWR:	< 1.5:1						
IMPEDANCE:	50 ohms						
AXIAL RATIO:	2 dB						
LIGHTNING PROTECTION:	DC GROUNDING						
POWER HANDLING:	200 Watts CW (WITHOUT LNA)						

**MECHANICAL:**

SIZE: DIAMETER: 2.60 in. [ 66.04 mm]  
HEIGHT: 0.657 in. [16.69 mm], .499 in. [12.67mm]

WEIGHT: 4.00 oz. (113 g)

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

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

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

**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

**ACCEPTANCE TEST PROCEDURE:** ATP-GPS-L1L2-100

QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH	THRU NO
4	MOUNTING SCREWS: 4-40, 3/4"	MS24693-C	-	-	3
4	MOUNTING SCREWS: 6-32, 3/4"	MS24693-C	-	-	2
1	O-RING	MS28775-024	-	-	1

CONFIGURATION	FREQ. BAND	LNA	CABLE LENGTH	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1215: L1/L2	A: WITH LNA	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	15: L1 ONLY	AL: WITH LNA/LIMITER	XL: WITH MAX. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	1216: L1/L2 & P	PL: WITHOUT LNA	PL: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RX/TX INMARSAT GLONASS/IRIDIUM	PL: WITHOUT LNA and THINNER (0.58" THICK)	PL: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

**1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]**  
**2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION**  
**NOTES: UNLESS OTHERWISE SPECIFIED:**

P/N: 2G1216P-XTBC-3

1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: DECIMALS ARE ANGLES

± 1/64 .001 .005 ± 1"

TOLERANCE SURF PER AMS Y14.5

REMOVE ALL BURRS

BREAK INTERNAL EDGES .005 TO .010

FILE TO .005 TO .010

COVER THREADS PER UNF-3-4899

DIA'S ON A COMMON & .0005

MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP.

2.6" Dia. L1/L2  
GPS/INMARSAT/GLONASS/  
IRIDIUM ANTENNA

D|3C|VE|1|2G1216P-XTBC-3|A

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas