



**New Iridium/GPS/Inmarsat or Thuraya Antenna**  
 P/N: 2GNSS16R-P-XTBC-1 (Inmarsat/Iridium /GPS RHCP), P/N: 2GNSS16L-P-XTBC-1 Rev A (Thuraya LHCP)  
 2.6" Diameter, Flat, Back Mount, Center Connector Configuration  
 3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available



FAA Approved Facility

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

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

**MECHANICAL:**

DIAMETER: 2.600 in. [66 mm]  
 HEIGHT: 0.583in. [14.81 mm]

WEIGHT: 5.3oz. (150g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL  
 BASE IRIDITE PER MIL-C-5541F

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

CONNECTOR: TNC Female Bulkhead  
 (OPTION: 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:**

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

**SPECIFICATIONS**

ZONE		REV	DESCRIPTION	DATE	APPROVED
A			ADDED CENTER CONNECTOR	10-02-12	S.H

REVISIONS		DATE	APPROVED
A		10-02-12	S.H

**ELECTRICAL:**

	Rx-Thuraya (LHCP), or Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP)	L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)	IRIDIUM, L1 GLONASS (RHCP) or Tx-Globalstar (LHCP)	Tx-Thuraya (LHCP) or Tx-Inmarsat (RHCP)
FREQUENCY:	(1542.5 ± 17.5) MHz	(1575 ± 17) MHz	(1609 -1626) MHz	(1642.5 ± 17.5) MHz
RADIATION PATTERN:	HEMISPHERICAL			
VSWR:	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms
ANTENNA GAIN (dBi):	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.	Free Space 4 ft G.P.
@ 90 ° ZENITH:	+ 2.5 + 1.6	+ 3.7 - 1.5	+ 3.0 - 0.5	+ 3.4 + 0.5
@ 10 ° Elevation:	- 4.7 - 2.4	- 3.5 - 3.5	- 4.5 - 4.0	- 3.8 - 3.3
@ 20 ° Elevation:	- 3.8 + 0.7	- 2.6 - 0.9	- 3.3 - 1.2	- 2.7 - 0.6
@ 30 ° Elevation:	- 2.1 + 2.3	- 0.9 + 0.3	- 1.5 - 0.3	- 1.0 - 0.1
@ 60 - 90 ° Elevation:	> + 1.0 > + 2.1	> + 2.3 > 0	> + 1.8 > - 1.3	> + 2.2 > - 1.5
BEAM WIDTH (3dB):	90 Deg. 140 Deg.	85 Deg. 140 Deg.	85 Deg. 140 Deg.	87 Deg. 130 Deg.
AXIAL RATIO:	3 dB			
LIGHTNING PROTECTION:	DC GROUNDING			

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	THRU
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

ANTCOM CORPORATION	FRQA BAND	LNA	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1215: L1/L2	A: WITH LNA	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	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	16: L1 & P: WITHOUT LNA	PL: WITHOUT LNA and THINNER (0.58" THICK)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RX/TX INMARSAT		T: TNC; TBC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)	GLONASS/IRIDIUM			
5: (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: 2GNSS16X-P-XTBC-1**

NMO Connector is Now Available for Some Antennas