



FAA Approved Facility

New IRIDIUM/GPS/Inmarsat or Thuraya Antenna

P/N: 2GNSS16R-P-XTB-1 (Inmarsat/Iridium /GPS RHCP), P/N: 2GNSS16L-P-XTB-1 (Thuraya LHCP),

2.6" Diameter, Flat, Back Mount, Bottom Connector Configuration

3.5in Dia., Mini-Arinc, & Arinc-743 Versions are also available

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 . <http://www.antcom.com>

REVISIONS:

ZONE	REV	DESCRIPTION	DATE	APPROVED
A	1	CONTACT GAIN	11/12/11	APR/12/11

P/N: 2G1215A-XS-2
EN: 66603 INT. 43 EX. 002387
 Antcom Corporation
 Torrance, CA, USA

SPECIFICATIONS

	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 (dBic):	Free Space	4 ft G.P.	Free Space	4 ft G.P.
@ 90 ° (ZENITH):	+ 2.5	+ 1.6	+ 3.7	- 1.5
@ 10 ° Elevation:	- 4.7	- 2.4	- 3.5	- 3.5
@ 20 ° Elevation:	- 3.8	+ 0.7	- 2.6	- 0.9
@ 30 ° Elevation:	- 2.1	+ 2.3	- 0.9	+ 0.3
@ 60 - 90 ° Elevation:	> + 1.0	> + 2.1	> + 2.3	> 0
BEAM WIDTH (3dB):	90 Deg.	140 Deg.	85 Deg.	140 Deg.
AXIAL RATIO:	3 dB			
LIGHTNING PROTECTION:	DC GROUNDING			

ELECTRICAL:

MECHANICAL:

SIZE: DIAMETER = 2.60 in. [66.04 mm]
 HEIGHT = 0.583 in. [14.81 mm]

WEIGHT: 5.3 oz. (150g)

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: TNC Female Bulk Head
 (OPTION: TNC, TNC Bulkhead, 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, DO-228, MIL-C-5541,
 MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE I145E

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

OPTIONAL MOUNTING:
 4X 6-32 UNC-2B,
 0.130" Deep,
 90° Apart on
 1.153" Radius; &
 ADHESIVE GASKET

MECHANICAL DIMENSIONS:
 Diameter: $\varnothing 2.600$ [66.04]
 Radius: R6.000 [R152.40]
 Height: .660 [16.76]
 Mounting Hole Diameter: .143 [3.63]
 Mounting Hole Spacing: .102 [2.59]

NAMEPLATE:

DATE STAMP:

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

SIZE: POLARIZATION: LNA:

1: 2" SQ	R: RHCP	A: WITH LNA
1.9: 1.9" SQ	L: LHCP	A: WITH LNA/LIMITER
2: 2.6" DIA		P: WITHOUT LNA
3: 3.5" DIA		
4: MINI ARINC		

QUANTITY REQD **PARTS LIST**

QTY	DESCRIPTION	PART NO	FINISH	REV
1	HEX NUT, MOUNTING	1/2-20 HEX		3
1	WASHER, LOCK	AN936B816		2
1	ADHESIVE GASKET	12345G-3M-2G		1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS: TOLERANCES ARE: DECIMALS: ANGLES:

± 1/64 .005 ± .1°

TOLERANCE 5M PER ANSI Y14.5

REMOVE ALL BURRS

BREAK EXTENSION LINES .005 TO .015

FILETS R .005 TO R .002

CHAMF .015 TO .020

DAYS ON A COMMON 6 2P .005

MACHINED SURFACES

DO NOT SCALE DRAWING

DATE FILE NO

SCALE 1/1

SHEET 1 OF 1

ANTCOM CORP. TORRANCE, CALIFORNIA

2.6" Dia, Bottom Connector
 THURAYA or IRIDIUM/GPS
 INMARSAT/GLONASS ANTENNA

3CVE12GNSS16X-P-XX-XA

NMO Connector is Now Available for Some Antennas