



FAA Approved Facility

High Gain Thuraya or Inmarsat/Iridium/GPS Antenna  
 P/N: G7-3GRxTxT-P-XNS-2-R-25mm (LHCP, Thuraya)  
 P/N: G7-3GRxTxIN-P-XNS-2-R-25mm (RHCP, Inmarsat/Iridium/GPS)

Connector and Mounting Foot Print Can be Customized

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



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**P/N: G7-3GRxTxIN-P-XNS-2-R-25mm**

|  |                         |                    |                        |  |
|--|-------------------------|--------------------|------------------------|--|
| Frequency:                               | MN: FLUSH MAGNET        | GPS/Rx LNA OPTION: | CONNECTOR:             | COLOR:                                       |
| L1RxTx; L1+RxTx; Inmarsat/Iridium (RHCP) | M: BIG NON-FLUSH MAGNET | A: WITH LNA        | S: SMA; P: PINS        | -1: GLOSS WHITE #17925 PER FED-STD-595B      |
| L1RxTx; L1+RxTx; Thuraya (LHCP)          | R: CABLE LENGTH (IN)    | P: WITHOUT LNA     | M: MCX; MM; MMCX       | -2: LUSTERLESS GRAY #38370 PER FED-STD-595B  |
| L1RxTx; L1+Rx; Inmarsat/Iridium (RHCP)   |                         |                    | N: N; NS: 1MB; 4thead  | -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B |
| L1RxTx; L1+Rx; Thuraya (LHCP)            |                         |                    | T: TNC; T: TNC; 4thead | -4: LUSTERLESS BLACK #37038 PER FED-STD-595B |
| RxTx; Inmarsat (RHCP)/Thuraya (LHCP)     |                         |                    |                        | -5: DESERT TAN #33446 PER FED-STD-595B       |

**SPECIFICATIONS**

|      |     | REVISIONS   |      |          |
|------|-----|-------------|------|----------|
| ZONE | REV | DESCRIPTION | DATE | APPROVED |
| -    | -   | -           | -    | -        |

**ELECTRICAL:**

|                       |   |   |  |
|-----------------------|---|---|--|
|                       | Rx Inmarsat:<br>OmniStar, L6 Galileo,<br>B1 Compass (RHCP)<br>or Rx-Thuraya (LHCP), | L1 GPS,<br>E1, E2 Galileo,<br>L1 IRNSS (RHCP) | Tx-Inmarsat (RHCP)<br>or Tx-Thuraya (LHCP) |
| FREQUENCY:            | (1542.5 ± 17.5) MHz   | (1575 ± 17) MHz                               | (1642.5 ± 17.5) MHz                        |
| RADIATION PATTERN:    | HEMISPHERICAL   |   |  |
| VSWR:                 | < 1.5:1   | < 1.5:1                                       | < 1.5:1                                    |
| IMPEDANCE:            | 50 ohms   | 50 ohms                                       | 50 ohms                                    |
| ANTENNA GAIN (dBic):  | 6dBic   | 6dBic   | 6dBic                                      |
| BEAM WIDTH (3dB):     | 97 Deg.   | 97 Deg.                                       | 97 Deg.                                    |
| AXIAL RATIO:          | 1 dB  |   |  |
| LIGHTNING PROTECTION: | DC GROUNDING  |   |  |

**MECHANICAL:**

SIZE: DIAMETER: 4.015 in. [101.98 mm]  
 HEIGHT: 0.984 in. [25.0 mm]

WEIGHT: <5 oz. (142 g)

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: SMA FEMALE  
 TNC, QMA, SMB, SMC, SSMA, SSMB, SSMC, MCX, MMCX)

**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:**

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

|   |             |         |     |
|---|-------------|---------|-----|
| 1 | DESCRIPTION | PART NO | REV |
| 1 |             |         | 1   |

  

|          |      |            |     |
|----------|------|------------|-----|
| QUANTITY | RECD | PARTS LIST | REV |
|          |      |            |     |

|  |  |
|--|--|
| <b>ANTCOM CORP.</b> TORRANCE CALIFORNIA  |  |
| Rx/Tx Inmarsat<br>L1 GPS Antenna   |  |
| TOLERANCE SHIP PER ANSI Y14.5<br>FRACTIONS: DECIMALS: ANGLES:<br>± 1/64 ± .005 ± 1°<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>REMOVE ALL SHARP<br>BREAK EXTERNAL EDGES .005 TO .010<br>FILLETS R .005 TO R .010<br>SCREW THREADS PER MIL-C-8879<br>DIMS ON A COLUMN ± .0005<br>MACHINED SURFACES ± .005<br>DO NOT SCALE DRAWING | DATE: 03/20/2017<br>DRAWN BY: D3C/E1<br>CHECKED BY: S. HUYNH<br>SCALE: 1/1<br>SHEET 1 OF 1 |

NMO Connector Option is Now Available for Some Antennas