



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>



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>

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**SPECIFICATIONS**

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
-	-	-	-	-

**ELECTRICAL:**

	Rx Inmarsat OmniStar, L6 Galileo, B1 Compass (RHCP) or Rx-Thuraya (LHCP),	L1 GPS, E1, E2 Galileo, L1 IRNSS (RHCP)	Tx-Inmarsat (RHCP) 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

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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: N/A; B: B; H: H	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
L1RxTx; L1+Rx Thuraya (LHCP)			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
RxTx; RxTx Inmarsat (RHCP)/Thuraya (LHCP)				-5: DESERT TAN #33446 PER FED-STD-595B

1	2
1	1
QUANTITY REQD	REVISION
DESCRIPTION	
PARTS LIST	
PART NO	
REV NO	

UNLESS OTHERWISE SPECIFIED		ANTCOM CORP. TORRANCE CALIFORNIA	
TOLERANCES ARE:		Rx/Tx Inmarsat	
FRACTIONS	DECIMALS	L1 GPS Antenna	
± 1/64	± .005	S. HUYNH	
± 1/32	± .010	Oct-30-13	
ANGLES		S. HUYNH	
± 1°		Oct-30-13	
TOLERANCE SHIP PER AMS Y14.5		S. HUYNH	
REMOVE ALL SHARP		June-14-17	
BREAK EXTERNAL EDGES .005 TO .010		P. TRAN	
FILLET R .005 TO R .008		June-14-17	
SCREW THREADS PER MIL-C-8879		S. HUYNH	
DIPS ON A COMMON 2.000		June-14-17	
MACHINED SURFACES .25		S. HUYNH	
DO NOT SCALE DRAWING		June-14-17	

NMO Connector Option is Now Available for Some Antennas