



ISO 9001:2008/FAA Approved Facility

New Embedded High Gain Array Rx/Tx-Thuraya or Inmarsat/Iridium Antenna

P/N: G7-2X3GL1RxTxIN-P-XS-X (RHCP, Iridium/Inmarsat)

P/N: G7-2X3GL1RxTxT-P-XS-X (LHCP, Thuraya)

For Mechanically Steered Array Antenna

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



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

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8.189 [207.99] R2.124 [R53.94] 3.914 [99.40] .987 [25.06]

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

32x 4-40 UNC Thru

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4x 1.602 [40.69] .465 [11.82] .466 [11.83] 1.168 [29.68] 10x 1.830 [46.48] 2x 1.034 [26.25] 1.623 [41.23] 3.318 [84.27] 2x 3.856 [97.95] 3.967 [100.77] 3.967 [100.77] 2x 3.619 [91.92] 2x 3.856 [97.95] 1.625 [38.73] 1.171 [4.33] 2x 1.225 [31.12] 5x .667 4x .390 [9.91] .250 [6.35] .250 [6.35] 4x .390 [9.91] 5x .670 [17.03]

1.596 [40.53] .937 [23.79] .980 [24.88] 1.641 [41.69] 8x .308 [7.82]

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P/N: G7-2X3GL1RxTxT-P-XS-X

Frequency:	MN: FLUSH MAGNET	GPS/Rx LNA OPTION:	CONNECTOR:	COLOR:
L1RxTxIn: 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
L1RxTxT: L1+RxTx Thuraya (LHCP)	#: CABLE LENGTH (IN)	P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
L1RxIn: L1+Rx Inmarsat/Iridium (RHCP)			N: N; NB: N-Bulk/Head	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
L1RxT: L1+Rx Thuraya (LHCP)			T: TNC; TB: TNC-Bulk/Head	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
RxTxInT: RxTx Inmarsat (RHCP)/Thuraya (LHCP)				

SPECIFICATIONS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
A		HOLLOWED BOTTOM TO REDUCE WEIGHT	02/19/14	S.H.

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):	9dBic	9dBic	9dBic
BEAM WIDTH (3dB):	65 Deg.	65 Deg.	65 Deg.
AXIAL RATIO:	1 dB		
LIGHTNING PROTECTION:	DC GROUNDING		

MECHANICAL:

SIZE: WIDTH: 3.91in. [99 mm], LENGTH: 8.19in. [208 mm], HEIGHT: .98in. [25.1 mm]

WEIGHT: 8.6oz. (243g)

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

MATERIAL: 6061-T8 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	2
QUANTITY REQD	PARTS LIST
DESCRIPTION	PART NO
	ITEM NO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES TOLERANCES ARE ± 1/64 .003 .015 ± 1° TOLERANCE SURF PER ANSI Y14.5 REMOVE ALL BURRS BREAK EDGES .005 TO .015 PER FED-STD-595B PER MIL-C-8879 2X3 ON A CORNER & 2X ON MACHINED SURFACES ✓	ORIGINALLY DRAWN S. HUYNH MAY-14-12	ANTCOM CORP. TORRANCE, CALIFORNIA Rx/Tx- Thuraya L1 GPS Antenna
ORIGINALLY DESIGNED S. HUYNH MAY-14-12	UPDATED S. HUYNH Oct-30-13	
UPDATE DRAWN P. TRAN Oct-30-13	APPROVED S. HUYNH Oct-30-13	
DO NOT SCALE DRAWING	SCALE 1/1	

NMO Connector Option is Now Available for Some Antennas