



FAA Approved Facility

L1 GPS/Glonass /Inmarsat/Iridium/Thuraya Helix Antenna

P/N: 3x2.5HL1IN-P-XS-1 (L1 GPS/Inmarsat, RHCP)

P/N: 3x2.5HT-P-XS-1 (Thuraya, LHCP)

Other Frequencies, Colors, Connectors and Mounting Configurations are 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>

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Top view dimensions:
 $\phi 2.500$ [63.50]
 $\phi 3.500$ [88.90]
 4X $\phi .207$ [5.25] THRU
 2.121 [53.88] SQ.

REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

Side view dimensions:
 3.585 [91.05]
 SMA FEMALE CONNECTOR
 (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, BNC)

SPECIFICATIONS

	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		
IMPEDANCE:	50 ohms		
ANTENNA GAIN (dBic):	8 dBic		
BEAM WIDTH (3dB):	60 Deg.		

ELECTRICAL:

MECHANICAL:

SIZE: TOP DIA = 2.50 in [63.50 mm], BASE DIA = 3.50 in [88.90 mm]
 HEIGHT = 3.585 in. [91.05 mm]

WEIGHT: 6.60 oz. (187.1 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
 (OPTION: TNC, TNC-Bulkhead, N, N-Bulkhead, BNC)

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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ACCEPTANCE TEST PROCEDURE: ATP-GPS-L1L2-100

Bottom view dimensions:
 4X M5 X 0.8
 .225 DEEP
 ON 1.344 RAD.
 R1.344 [R34.12]

Frequency:	MIN: FLUSH MAGNET	GPS/Rx LNA OPTION:	CONNECTOR:	COLOR:
L1 IN: L1 GPS/Glonass/L-Band + Inmarsat (RHCP)	M: BIG NON-FLUSH MAGNET	A: WITH LNA	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
T: Thuraya (LHCP)	#: CABLE LENGTH (IN)	P: WITHOUT LNA	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
			W: N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
			T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
				-5: TAN #33446 PER FED-STD-595B

QUANTITY REQD	DESCRIPTION	PART NO	FINISH	TEST
4	PANHEAD SCREW, M5 X 10mm L	90116A250	-	2
4	PANHEAD SCREW, M5 X 20mm L	90116A260	-	1
-1	DESCRIPTION	PART NO	FINISH	TEST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

FRACTIONS SHALL BE IN 16ths

DECIMALS SHALL BE TO 2 PLACES

TOLERANCE 5/16 PER ANSI Y14.5

REMOVE ALL SHARP BREAK-EXTERNAL EDGES TO .015

FILE TO .005

SCREW THREADS PER MIL-C-8879

DAYS ON A COMMON 6/27/05

MACHINED SURFACES 12/7

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE, CALIFORNIA

HIGH GAIN
 L1 GPS/Glonass/Inmarsat/Iridium or Thuraya Antenna

DATE: 02/28/14
 DRAWN BY: S. HUYNH
 CHECKED BY: S. HUYNH
 APPROVED BY: S. HUYNH

SCALE: 1/1

SHEET 1 OF 1

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NMO Connector Option is Now Available for Some Antennas