

L1 GPS /L-Band Helix Antenna

P/N: S52IR16RR-P-MT-X

2.6" Diameter x 4.5" Tall, Magnetic Mount Antenna Configurations

Noise Figure is Now Improved to 1.9 dB for L1 GPS/OmniStar/Glonass and 2.3 dB for L1/L2 GPS/OmniStar/Glonass as of June-01-14
 Antenna Mounts/Adapters: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

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OPTIONAL TOP MOUNTING:
 4x10-32 Screws
 4x .25 [6.35] Thru.
 ✓ .365 [9.27] x 100"

REMOVABLE MAGNETIC MOUNT

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

NAMEPLATE

SPECIFICATIONS

FREQUENCY (MHz):	(1575.42±15)	(1542.50±17.5)	(1642.50±17.5)	(1602-1616)	(1610-1626)	(1227.60±15)
GAIN (dBi) in FS/4ft GF	L1 GPS	Rx INMARSAT	Tx INMARSAT	GLONASS	IRIDIUM	L2 GPS
@ 90° (Zenith):	+1.1/+3.7	+0.7/+1.5	-0.3/0.0	+0.5/+2.9	+0.1/+1.1	-5.0
@ 10° Elevation:	-0.9/+0.0	-1.6/-1.3	-1.9/-1.0	-1.3/+0.2	-1.6/-0.8	-6.5 to -11.5
@ 20° Elevation:	-0.2/+2.0	-0.8/+1.0	-1.1/+1.2	-0.5/+2.4	-0.8/+1.2	-6.2 to -9.2
@ 30° Elevation:	+0.3/+2.0	-0.2/+1.0	-0.8/+0.4	+0.1/+2.1	-0.7/+1.1	-5.7 to -7.7
@ 45° Elevation:	+0.6/+1.5	+0.3/+0.6	-0.7/-0.8	-0.1/+1.0	-0.3/-0.3	-4.6 to -6.0
@ 70° Elevation:	+0.3/+1.3	+0.3/+0.4	-1.6/0.0	-0.3/+1.1	-0.7/0.0	-4.0
BEAM WIDTH (3dB)	173/155 Deg.	173/155 Deg.	180/162 Deg.	180/162 Deg.	180/162 Deg.	(107 to 170) Deg.
AXIAL RATIO (dB)	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 5
RADIATION PATTERN:	HEMISPHERICAL					
POLARIZATION:	RHCP					
VSWR:	< 1.5:1					
DC GROUNDING	YES (LIGHTNING PROTECTION)					

ELECTRICAL:

MECHANICAL:

SIZE: DIAMETER = 2.653 in. [67.38 mm]
 HEIGHT = 4.618 in. [117.29 mm]

WEIGHT: 5.15 oz. (146 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL
 BASE IRIDITE PER MIL-C-5441

COLOR: GLOSS WHITE #17925 PER FED-STD-595B
 LUSTERLESS GRAY #36320 PER FED-STD-595B
 OLIVE DRAB GREEN #34031 PER FED-STD-595B
 LUSTERLESS BLACK #37038 PER FED-STD-595B

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE
 COMPOSITE RADOME, IMPACT, ABRASION, UV, SOLVENT, AND SKYDROL RESISTANCE, FIRE RETARDANT

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

MOUNTING: MAGNETIC, FLAT, FIXED, OR PIPE MOUNT

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:

DESIGN TO: FAA TSO-C144, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	FINISH	ITEM NO
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1					4
1					3
1					1
1					1
-1					-

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS DECIMALS ANGLES
 ± 1/64 .005 .015 ± 1°
 DECIMALS ANGLES ± 1°
 BREAK ALL DIMS
 BREAK EXTERNAL EDGES .005 TO .015
 FILL IN .005 TO .015
 SOREW THREADS PER UNF-2-8879
 BASES ON A COMMON 1/8" DIA
 MACHINED SURFACES

ANTCOM CORP. TORRANCE, CALIFORNIA
 MAGNETIC MOUNT
 IRIDIUM/GPS/GLONASS/
 INMARSAT HELIX ANTENNA

APPROVED: S. HUYNH FEB-23-05
 DATE: FEB-23-05
 SCALE: 1/1
 SHEET: 1 OF 1

NOTES: UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]
 2. ALL SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

P/N: S52IR16RR-P-MT-4

NMO Connector Option is Now Available for Some Antennas