



FAA Approved Facility

GPS/RHCP-Inmarsat/Iridium Antenna P/N: S52IR16RR-P-MT-X
(P/N: S52RxIN-P-MT-X for Rx only)

LHCP-Thuraya Antenna P/N: S52IR16LL-P-MT-X (P/N: S52RxT-P-MT-X for Rx only),
2.6" Diameter x 4.5" Tall, Magnetic Mount, Side Connector Configuration

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



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REVISIONS		DATE	APPROVED

SPECIFICATIONS

ELECTRICAL:

FREQUENCY (MHz):	(1575.42±15)	(1542.50±17.5)	(1642.50±17.5)	(1602-1616)	(1610-1626)	(1227.60±15)
GAIN (dBic) in FS/4ft GP	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)					

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

OPTIONAL Top Mounting:
4x10-32 Screws
4x .20 [5.11] Thru.
✓ .385 [9.78] X 100"

REMOVABLE MAGNETIC MOUNT

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

NAMEPLATE

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

CONFIGURATION:

1: 2" SQ. (FLAT)

1.9: 1.9" SQ. (FLAT)

2: 2.6" DIA. (FLAT)

3: 3.5" DIA. (FLAT)

4: MINI ARINC (FLAT)

S2 OR S3: (HELIX ROD)

5B: (HELIX BLADE)

3D: (HELIX HANDHELD)

POLARIZATION:	LNA:	CABLE'S LENGTH:	CONNECTOR:	COLOR:
LL: TX: LHCP, RX: LHC P	X: NO CABLE	X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
LR: TX: LHCP, RX: RHC P	A1: WITH +34 dB LNA	M: WITH MAG. MOUN T	M: MCX, MM, MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
RL: TX: RHCP, RX: LHC P	P: WITHOUT LNA	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
RR: TX: RHCP, RX: RHC P		R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		N: NO MAG. MOUN T		

P/N: S52IR16RR-P-MT-4

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

NMO Connector Option is Now Available for Some Antennas