



FAA Approved Facility

Iridium-GPS-Glonass-Inmarsat Helix Antenna
P/N: S52IR16RR-P-MNMO-4 (Magnetic Mount, Side NMO Connector)
P/N: S52IR16RR-P-NMO-4 (Bottom NMO Connector)
 Other Frequencies, Connectors and Colors are Also 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>

NOTICE OF PROPRIETARY RIGHTS
 THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION. THESE RIGHTS ARE RESERVED BY ANTCOM CORP. DISCLOSURE OF THIS DATA TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP. IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

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 = 5.79 in. [147.07 mm]

WEIGHT: 12.5 oz. (354 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: NMO CONNECTOR,
 (OPTION: SMA, TNC, 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

P/N: S52IR16RR-P-MNMO-4

P/N: S52IR16RR-P-NMO-4
(Bottom NMO Connector)

Dimensions: $\phi 2.653$ [$\phi 67.38$], $\phi 1.000$ [$\phi 25.40$], 5.790 [147.07], 1.500 [38.10], 1.008 [25.60], .258 [6.55], 1-1/8-18 NMO THREAD, 1.094 [27.79], REMOVABLE MAGNETIC MOUNT

QUANTITY	DESCRIPTION	PART NO	FINISH	REF
1				
4	MOUNTING SCREW: (10-32, 1")	NS24693C276	-	1

PARTS LIST	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS AND ANGLES SHALL BE TO 3 SIG FIGS UNLESS OTHERWISE SPECIFIED	ORIGINALLY DRAWN S. HUYNH FEB-23-05
TOLERANCE .010 PER ANSI Y14.5	ORIGINALLY DESIGNED S. HUYNH FEB-23-05
REWORK ALL SURFACES PER MIL-STD-883C METHOD 2000.10.1.1	UPDATED S. HUYNH DEC-17-14
REWORK EXTERNAL EDGES .005 TO .015	UPDATE DRAWN P. TRAY DEC-17-14
FILES TO .0015 TO .002	APPROVED S. HUYNH DEC-17-14
SOFTEN THREADS PER MIL-S-8879	
24.5 ON A COAXIAL PLUG	
MACHINED SURFACES	
DO NOT SCALE DRAWING	

P/N: S52IR16RR-P-MNMO-4

NMO Connector Option is Now Available for Some Antennas