



Iridium Antenna

P/N: S2IR16RR-P-MNRS-2

3.5" Diameter, Flat, Front/Back Flush Magnetic Mount Configuration



ISO 9001:2008/FAA Approved Facility

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

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SPECIFICATIONS

REVISIONS	
ZONE	REV
-	-

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz
RADIATION PATTERN:	HEMISPHERICAL
POLARIZATION:	RHCP
VSWR:	< 1.5:1
GAIN (dB):	4 ft G.P. Free Space
@ 90° Zenith:	+4.9
@ 10° Elevation (Ave):	-1.0
@ 20° Elevation (Ave):	+1.5
@ 30° Elevation (Ave):	+2.4
@ 45° Elevation (Ave):	+3.3
@ 70° Elevation (Ave):	+4.7
Beam Width (3dB):	129°
AXIAL RATIO @ Zenith:	2.0 dB
IMPEDANCE:	50 Ohms
POWER HANDLING:	200 Watt
DC GROUNDING:	YES (LIGHTNING PROTECTION)

MECHANICAL:

SIZE: DIAMETER = 3.530 in. [89.66 mm]
HEIGHT = 0.860 in. [21.84 mm]

WEIGHT: 6.44 oz. (183 g)

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

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

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

MOUNTING: MAGNETIC 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/TSO-C159a, DO-160D, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

CONFIGURATION	POLARIZATION	LNA	CABLE'S LENGTH	CONNECTOR	COLOR
1: 2" SQ. (FLAT)	LL: TX: LHCP, RX: LHCP	A1: WITH +34 dB LNA	X: NO CABLE	S: SMA; P: PINS	*1: GLOSS WHITE #17925 PER FED-STD-595B
1.3: 1.9" SQ. (FLAT)	LR: TX: LHCP, RX: RHCP	P: WITHOUT LNA	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	*2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	RL: TX: RHCP, RX: LHCP		R: CABLE LENGTH (IN)	T: TNC	*3: CAMO GREEN #34094 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	RR: TX: RHCP, RX: RHCP		R: RIGHT ANGLE COM.		*4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					*4: LUSTERLESS BLACK #37038 PER FED-STD-595B
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					

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NOTES: UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
-2	-1				1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
FRACTIONS DECIMALS ANGLES
± 1/64 ± .005 ± .1

TOLERANCE SYM PER ANSI Y14.5
REWORK ALL SURFACES
FINISH OF TOP SURFACES .005 TO .015
SCREW HEADS PER MIL-S-8878
2X3 ON A COLUMN ± .005
MACHINED SURFACES

DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

3.5" DIA. FLUSH MAGNET MOUNT
IRIDIUM ANTENNA

REV: 3C VE1
SCALE: 1/1

NMO Connector Option is Now Available for Some Antennas