



IRIDIUM Antenna, P/N: S1.5IR16RR-P-XS-X Rev B

1.5" Square, Back Mount Configurations



ISO 9001:2008/FAA Approved Facility

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

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

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SPECIFICATIONS

ELECTRICAL:

FREQUENCY:	(1610.0 - 1626.5) MHz	
RADIATION PATTERN:	HEMISPHERICAL	
POLARIZATION:	RHCP	
VSWR:	< 1.5:1	
GAIN (dB):	4 ft G.P.	2.6 in G.P.
@ 90° (Zenith):	+4.9	+4.4
@ 10° Elevation (Ave):	-1.0	-2.6
@ 20° Elevation (Ave):	+1.5	-1.0
@ 30° Elevation (Ave):	+2.4	+0.4
@ 45° Elevation (Ave):	+3.3	+2.5
@ 70° Elevation (Ave):	+4.7	+4.0
BEAM WIDTH(3dB):	129 °	+106 °
AXIAL RATIO @ Zenith:	2.0 dB	
IMPEDANCE:	50 Ohms	
POWER HANDLING:	200 Watt	
DC GROUNDING:	YES (LIGHTNING PROTECTION)	

MECHANICAL:

SIZE: 1.5in Square
 HEIGHT= 0.447 in. [11.35 mm]
 WEIGHT: 1.5 oz. (42.5 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: FEMALE SMA CONNECTOR
 (TNC, N , OTHER CONNECTOR, OR CABLE IS OPTIONAL)

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]
 ALTITUDE: 70,000 ft.
 VIBRATION: > 30 G's
 LEAKAGE: HERMETICALLY SEAL

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 MOUNTING:
 2-56 SCREWS, ADHESIVE GASKET, HYSOL, OR RTV

FEMALE SMA CONNECTOR
 (PIN, TNC, N , OTHER CONNECTOR, OR CABLE IS OPTIONAL)

SIZE	FREQ. BAND	POLARIZATION:	LNA:	FILTER
1: 2" SQ.	1625-Tx/Rx	LL: TX: LHCP, RX: LHCP	A1: WITH +23dB LNA	
1.5: 1.5" SQ.	25: 2493MHz	LR: TX: LHCP, RX: RHCP	A2: WITH +43dB LNA	
2: 2.6" DIA.	16: 1616MHz	RL: TX: RHCP, RX: LHCP	P: WITHOUT LNA	
3: 3.5" DIA.		RR: TX: RHCP, RX: RHCP		
4: MINI ARINC				

REVISIONS

ZONE	REV	DESCRIPTION	PART NO	SPECIFICATION	MATERIAL	FINISH	ITEM NO
							5
		ADHESIVE GASKET	123456G-3M-1.2G				3
							1

P/N: S1.5IR16RR-P-XS-X

CABLE LENGTH	CONNECTOR	COLOR
X: NO CABLE	S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
R: CABLE LENGTH (IN)	N: NB; N: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
R: RIGHT ANGLE CON.	T: TB; TNC: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B

2. MOUNTING SCREWS ARE SUPPLIED BY ANTCOM CORPORATION

1. DIMENSIONS IN BRACKETS ARE IN MILLIMETERS [mm]

NOTES: UNLESS OTHERWISE SPECIFIED:

UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN INCHES
 FRACTIONS: DECIMALS: ANGLES
 ± 1/64 .005 .005 ± 1°
 DECIMALS: .005 ± 1°
 TOLERANCE .51M PER ANSI Y14.5
 BREAK: EXTERNAL EDGES .005 TO .015
 FILLET R .005 TO .015 PER
 SAE J484
 MACHINED SURFACES 25°
 DO NOT SCALE DRAWING

ANTCOM CORP. TORRANCE CALIFORNIA

1.5" SQ.
 IRIDIUM ANTENNA

3CVE1	S1.5IR16RR-P-XS-X	REV
SCALE 1/1		SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas