

Glass Mount IRIDIUM Antennas, P/N: S2IR16RR-P-GMS-X: 2.6" Diameter, Glass/Magnetic Mount Configurations



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MECHANICAL SPECIFICATIONS:

- SIZE: DIAMETER = 2.60 in. [66.04 mm]
- HEIGHT = 0.890 in. [22.65 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: SMA FEMALE CONNECTOR (OPTION: SMA, N, TNC, N-Bulkhead, MCX, MMCX)
- MOUNTING: GLASS, FLAT, OR MAGNETIC MOUNT

ENVIRONMENTAL:

- TEMPERATURE: -87 °F TO +185 °F [-65 °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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

REVISIONS		DATE	APPROVED

ZONE	REV	DESCRIPTION	DATE	APPROVED

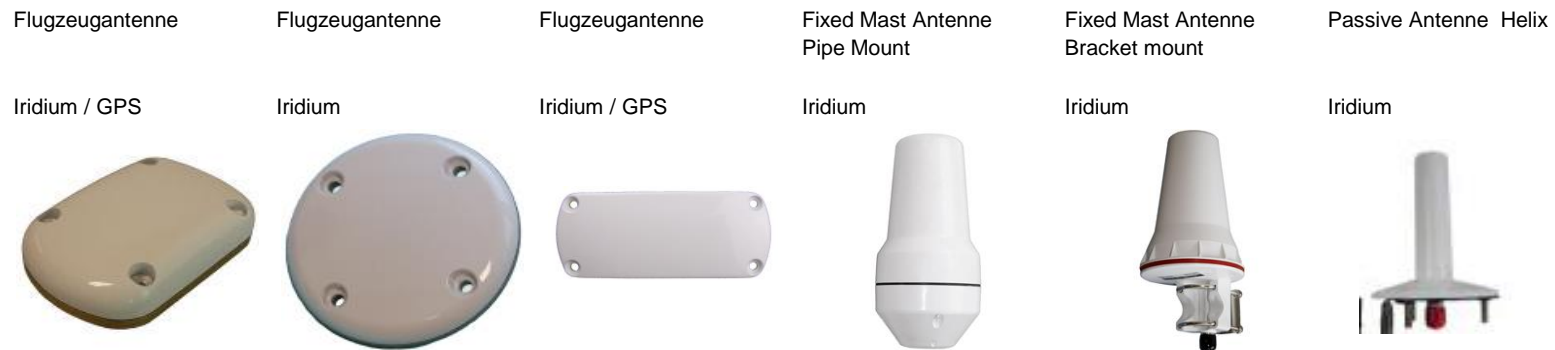
ELECTRICAL:		SPECIFICATIONS	
FREQUENCY:	(1610.0 - 1628.5) MHz		
RADIATION PATTERN:	HEMISPHERICAL		
POLARIZATION:	RHCP		
VSWR:	< 1.5:1		
GAIN (dB):	4 ft G.P.	Free Space	
@ 90° (Zenith):	+4.9	+4.4	
@ 10° Elevation (Ave):	-1.0	-2.6	
@ 20° Elevation (Ave):	+1.5	-1.0	
@ 30° Elevation (Ave):	+2.4	+0.4	
@ 45° Elevation (Ave):	+3.3	+2.5	
@ 70° Elevation (Ave):	+4.7	+4.0	
Beam Width (3dB):	129°	+105°	
AXIAL RATIO @ Zenith:	2.0 dB		
IMPEDANCE:	50 Ohms		
POWER HANDLING:	200 Watt		
DC GROUNDING:	YES (LIGHTNING PROTECTION)		

CONFIGURATION	POLARIZATION	LNA	MOUNTING/CABLE	CONNECTOR	COLOR
1. 2" SQ. (FLAT)	L: TC; LHCP; RK: LHCP	A1: WITH +34 dB LNA	X: BOTTOM CONNECTOR	S: SMA; P: PINS	1- GLOSS WHITE #17925 PER FED-STD-595B
1.5. 1.5" SQ. (FLAT)	L: TC; LHCP; RK: RHCP			M: MCX; MM: MMCX	2- LUSTERLESS GRAY #36320 PER FED-STD-595B
2. 2" DIA. (FLAT)	R: TC; RHCP; RK: LHCP	P: WITHOUT LNA		N: N; NB: N-Bulkhead	3- OLIVE DRAB GREEN #34031 PER FED-STD-595B
3. 3" DIA. (FLAT)	R: TC; RHCP; RK: RHCP			T: TNC; TB: TNC-Bulkhead	4- LUSTERLESS BLACK #37038 PER FED-STD-595B
4. MINI ARING (FLAT)					
53. (HELIX ROD)					
55. (HELIX BLADE)					
59. (HELIX HANDHELD)					

QUANTITY	DESCRIPTION	PART NO.	MATERIAL	FINISH	REF.
	ADHESIVE GASKET	123456-JM-30			3
					1

UNLESS OTHERWISE SPECIFIED		ANTCOM CORP. TORRANCE, CALIFORNIA	
FRACTION	DECIMAL		
1/64	0.015625		
1/32	0.03125		
3/32	0.09375		
1/8	0.125		
3/16	0.1875		
1/4	0.25		
5/16	0.3125		
3/8	0.375		
7/16	0.4375		
1/2	0.5		
5/8	0.625		
3/4	0.75		
7/8	0.875		
1	1.0		
1 1/8	1.125		
1 1/4	1.25		
1 3/8	1.375		
1 1/2	1.5		
1 5/8	1.625		
1 3/4	1.75		
1 7/8	1.875		
2	2.0		
2 1/8	2.125		
2 1/4	2.25		
2 3/8	2.375		
2 1/2	2.5		
2 5/8	2.625		
2 3/4	2.75		
2 7/8	2.875		
3	3.0		
3 1/8	3.125		
3 1/4	3.25		
3 3/8	3.375		
3 1/2	3.5		
3 5/8	3.625		
3 3/4	3.75		
3 7/8	3.875		
4	4.0		
4 1/8	4.125		
4 1/4	4.25		
4 3/8	4.375		
4 1/2	4.5		
4 5/8	4.625		
4 3/4	4.75		
4 7/8	4.875		
5	5.0		
5 1/8	5.125		
5 1/4	5.25		
5 3/8	5.375		
5 1/2	5.5		
5 5/8	5.625		
5 3/4	5.75		
5 7/8	5.875		
6	6.0		
6 1/8	6.125		
6 1/4	6.25		
6 3/8	6.375		
6 1/2	6.5		
6 5/8	6.625		
6 3/4	6.75		
6 7/8	6.875		
7	7.0		
7 1/8	7.125		
7 1/4	7.25		
7 3/8	7.375		
7 1/2	7.5		
7 5/8	7.625		
7 3/4	7.75		
7 7/8	7.875		
8	8.0		
8 1/8	8.125		
8 1/4	8.25		
8 3/8	8.375		
8 1/2	8.5		
8 5/8	8.625		
8 3/4	8.75		
8 7/8	8.875		
9	9.0		
9 1/8	9.125		
9 1/4	9.25		
9 3/8	9.375		
9 1/2	9.5		
9 5/8	9.625		
9 3/4	9.75		
9 7/8	9.875		
10	10.0		

SCALE	SHEET	OF
1/1	1	1



Hersteller / Manufacturer	Aero Antenna Techn.	Antcom	Antcom	Aero Antenna Techn.	Aero Antenna Techn.	Antcom
Frequenz / Frequency	1610 - 1626.5 MHz	1610 - 1626.5 MHz	1610 - 1626.5 MHz	1616 - 1626 MHz	1616 - 1626 MHz	1610 - 1626 MHz
VSWR	<1.5:1	<1.5:1	<1.5:1	≤ 2.0 : 1	≤ 2.0 : 1	<1.5:1
Axialverhältnis / Axial Ratio	2 dB @ Zenit		2 dB @ Zenit	3 dB Max at Bore Sight	3 dB Max	3 dB Max
Radiation Coverage			+4.9 @ 90° -1.0 @ 10° +1.5 @ 20° +2.4 @ 30° >+3.3 @ 60°-90°	+0.04 dBic 0° = 0° +1.4 dBic 0° < θ < 45° -0.25 dBic 75° < θ < 82°	+0.04 dBic 0° = 0° +1.4 dBic 0° < θ < 45° -0.25 dBic 75° < θ < 82°	
Polarisation	RHCP	RHCP	RHCP	RHCP	RHCP	RHCP
Impedanz / Impedance	50 Ohm	50 Ohm		50 Ohm	50 Ohm	50 Ohm
Gewinn / Gain						
Anschluß / Connector	2 * TNC female	TNC female	2 * TNC female	TNC female	TNC female	TNC female
Kabeltyp				max 8 dB loss	max 8 dB loss	
Kabellänge						
Gewicht / Weight	140 gr	146 gr	237 gr	315 gr	227 gr	146 gr
Durchmesser / Diameter		88.9 mm		76 mm	83 mm	89 mm
Höhe / Height	19.56 mm ohne Anschlüsse; 28.96 mm mit Anschlüssen	14.81 mm	17 mm ohne Anschlüsse 32 mm mit Anschlüssen	162 mm	186 mm	119 mm
Größe (LxB)	87.40 x 55.63 mm		128 x 56 mm			
Temperaturbereich Operating Temp.	-55°C bis +85°C	-55°C bis +85 °C	-55°C bis +85°C	-40°C - +85°C	-40°C - +85°C	-55°C - +85°C
Schutzklasse Protection Class						
Einsatzgebiet Application area	Flugzeug / Airplane	Flugzeug / Airplane	Flugzeug / Airplane	Schifffahrt / Navigation	Schifffahrt / Navigation	dauerhafte Außeninstallation mit Kabellängen bis 50 m
	ohne TSO / without TSO	mit oder ohne TSO / with or without TSO	mitTSO / with TSO	dauerhafte Außenin- stallation / permanent outdoor installation	dauerhafte Außenin- stallation / permanent outdoor installation	permanent outdoor installation with cable length up to 50 m

Aktive Antenne RST740

Iridium



Hersteller / Manufacturer	Beam
Frequenz / Frequency	1616 - 1626.5 MHz
VSWR	
Axialverhältnis / Axial Ratio	
Radiation Coverage	

Polarisation	RHCP
Impedanz / Impedance	50 Ohm
Gewinn / Gain	
Anschluß / Connector	TNC female
Kabeltyp	max 13.3 dB loss
Kabellänge	

Gewicht / Weight	
Durchmesser / Diameter	
Höhe / Height	

Größe (LxB)	
Temperaturbereich Operating Temp.	-25°C - +55°C
Schutzklasse Protection Class	

Einsatzgebiet Application area	dauerhafte Außeninstallation mit Kabellängen bis 104 m permanent outdoor installation with cable length up to 105 m
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