



Active GPS & (IRIDIUM/Inmarsat or Thuraya) Antenna (4.2"x2.2"x0.7"), Glass/Flush Magnetic Mount, P/N: S4.2GIR1516RR-AP-GMNSS-X



ISO 9001:2008/FAA Approved Facility

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

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4xR.850 [R21.59] 4.156 [105.56] 2.214 [56.24]

.330 [8.38] .330 [8.38]

.505 [12.83] High Glass Mount Suction Cup

.739 [18.77]

.204 [5.17]

Iridium: SMA Female (J1, Red) GPS: SMA Female (J2, Blue)

(+2.5 to +30) Volts DC

4 x Flush Magnets

4x.707 [17.96] 4x1.016 [25.82]

4X 6-32 UNC-2B X 0.160

NAMEPLATE

SPECIFICATIONS

	IRIDIUM		GPS	
	(1610.0 - 1626.5) MHz	Free Space	L1: (1575.42 ±13)	F.S.
FREQUENCY:				
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL	
POLARIZATION:	RHCP		RHCP	
VSWR:	< 1.5:1		< 1.5:1	
GAIN (dB):	4 ft G.P.	Free Space	F.S.	4 ft G.P.
@ 90° (Zenith):	+4.9	+5.0	+4.6	+2.9
@ 10° Elevation:	-1.0	-2.5	-2.5	-1.8
@ 20° Elevation:	+1.5	-0.5	-1.1	+0.7
@ 30° Elevation:	+2.4	+1.0	+0.5	+1.7
@ 60° to 90° Elevation:	>+3.3	>+2.7	> 3.6	> 2.1
BEAM WIDTH (3dB):	129 °	98 °-106 °	103 °	146 °
AXIAL RATIO @ Zenith:	2 dB		2 dB	
POWER HANDLING:	30 W		1 Watt	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING	
FILTER (REJ. @1616 MHz):	> 60 dB		> 60 dB	
LNA GAIN:	N/A		(33.0+/-1.0) dB, 20dB (-A2- Option)	
LNA P 1dB Out:	N/A		+16 dBm	
LNA NOISE FIGURE:	N/A		2.8 dB (Filter loss is Included)	
VOLTAGE/CURRENT:	N/A		(+2.8 TO +28) Volts DC / (30 TO 50) mA	

MECHANICAL:

SIZE: WIDTH: 2.21 in. [56 mm], LENGTH: 4.15 in. [106 mm], HEIGHT: 0.74 in. [19 mm]

WEIGHT: 7.84 oz. (222 g)

FINISH: SKYDROL RESISTANT POLYURETHANE ENAMEL, AND NICKEL PLATING

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

CONNECTOR: IRIDIUM: SMA FEMALE (J1, Red); GPS: SMA FEMALE (J2, Blue) (OPTIONAL: SMA, TNC, MCX, MMCX, N OR CABLE)

MOUNTING: GLASS/BACK/FLUSH MAGNETIC MOUNT

ENVIRONMENTAL:

TEMPERATURE: -67 °F TO +185 °F [-55 °C TO +85 °C]

ALTITUDE: 70,000ft.

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

ZONE	REV	DESCRIPTION	DATE	APPROVED
4				
1				

CONFIGURATION	FREQ. BAND	GPS/IRIDIUM/LNA	MOUNTING	GPS/IRIDIUM CONNECTOR	COLOR
1: 2" SQ. (FLAT)	1516 L1 GPS & IRIDIUM	A: WITH LNA		S: SMA; P: PINS	-1: GLOSS WHITE #17925 PER FED-STD-595B
1.9: 1.9" SQ. (FLAT)	1216 L1/L2 GPS	P: WITHOUT LNA	N: NO MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		MM: Flush Mag. Mount	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)		A2: WITH 20dB LNA	GMN: GLASS/ Flush Mag. Mount	T: TNC; TB: TNC- Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
4: MINI ARINC (FLAT)					
53: (HELIX ROD)					
5B: (HELIX BLADE)					
3D: (HELIX HANDHELD)					
4.2: 4.2inx 2.2inx Flat					

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

NMO Connector is Now Available for Some Antennas