

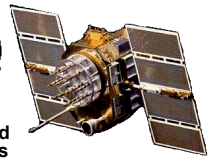


Antcom's **G5 + Iridium Antenna,**
Iridium + Active L1/L2 Glonass + L1/L2 GPS + Omnistar Antenna

P/N: S5GIRG5RR-AP-XNT-2

(with Filters, better RTK Performance, Optimized for L1/L2 Glonass & L1/L2 GPS & OmniStar)

ISO 9001:2008/FAA Approved Facility **Antenna Mounts:** <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>



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SPECIFICATIONS

ELECTRICAL:

	IRIDIUM	L5 GPS E5, E5a, E5b, Galileo L5 IRNSS	L2 GPS B2 Compass	L2 GLONASS E6 Galileo B3 Compass	OmniSTAR / L-Band L6 Galileo B1 Compass	L1 GPS E1, E2 Galileo L1 IRNSS	L1 GLONASS
FREQUENCY:	1610.0 - 1626.5 MHz	1176.45 ± 12.0 MHz 1164.45 - 1219.14 MHz 1176.45 ± 15.0 MHz	1227.60 ± 12.0 MHz 1207.14 ± 10.0 MHz	1252.50 ± 7.5 MHz 1266.75 - 1290.75 MHz 1268.52 ± 10.0 MHz	1542.50 ± 14.0 MHz 1542.50 ± 5.0 MHz 1561.098 ± 10.0 MHz	1575.42 ± 15.0 MHz 1575.42 ± 17.0 MHz 1575.42 ± 12.0 MHz	1609 ± 7.0 MHz
RADIATION PATTERN:	RHCP		RHCP		RHCP		RHCP
POLARIZATION:	< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1
VSWR:	50 ohms		50 ohms		50 ohms		50 ohms
IMPEDANCE:	50 ohms		50 ohms		50 ohms		50 ohms
ANTENNA GAIN (dBi):	Free Space	4ft G.P	Free Space	Sin G.P	Free Space	Sin G.P	Free Space
@ 90° (ZENITH):	+4.9	+5.0	-7	-3	+0.5	+3	-0.8
@ 10° Elevation:	-1.0	-2.5	-13	-10	-5.6	-4.1	-7.1
@ 20° Elevation:	+1.5	-0.5	-11	-9	-3.9	-2.7	-5.4
@ 30° Elevation:	+2.4	+1.0	-10	-8	-2.6	-0.9	-4.3
@ 60-90° Elevation:	>+3.3	>+2.7	>-8	>-5	>-1	>1.8	>2.4
BEAM WIDTH (3dB):	129 Deg	98-106	105 Deg	100 Deg	105 Deg	90 Deg	105 Deg
AXIAL RATIO:	2 dB	2 dB	1.5 dB	3 dB	1 dB	1 dB	1 dB
LIGHTNING PROTECTION:	DC GROUNDING						
LNA GAIN:	N/A	35 dB	35 dB	35 dB	33 dB	32 dB	31 dB
LNA NOISE FIGURE:	N/A	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB	3.0 dB
LNA P1dB Out:	N/A	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm	+13 dBm
LNA DC POWER:	N/A			2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/<50mA			
POWER HANDLING:	1 Watt CW, Optional: 10 Watts 1 Microsec Pulse (-AL-)						

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm], HEIGHT: 0.721 in. [18.31 mm]

WEIGHT: 8.0 oz. (226 g)

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

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

CONNECTOR: GPS: TNC FEMALE, IRIDIUM: N FEMALE (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead, MCX, MMCX, or Cable)

MOUNTING: FLAT FIXED MOUNT; O-RING & 4 x 10-32 MOUNTING SCREWS PROVIDED

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, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

QUANTITY	DESCRIPTION	PART NO	MATERIAL	FINISH	ITEM NO
4	MOUNTING SCREW: (10-32, 1")	M524693C276	-	-	5
1	ADHESIVE GASKET	12345G-3M-4G	-	-	3
1	O-RING	2-038-N756-75	-	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINALLY DESIGNED BY	DATE
FRACTIONS: DECIMALS: ANGLES: ± 1/64 .0015 ± .005 ± 1°	S. HUYNH	DEC-13-02
TOLERANCE 5M PER ANSI Y14.5	S. HUYNH	DEC-13-02
REMOVE ALL BURRS	S. HUYNH	Jan-21-13
RELIEF ALL INTERNAL EDGES .005 TO .015	P. TRAN	Jan-21-13
DRILL TO .002 TO .003	S. HUYNH	Jan-21-13
SCREEN THREAS PER MIL-S-8879		
DRILL ON A COMMON # 2-000		
MACHINED SURFACES 12/		
DO NOT SCALE DRAWING		

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT FIXED MOUNT
 ACTIVE IRIDIUM & G5
 ANTENNA

REV: 1

DATE: 01/21/13

DESIGNER: S. HUYNH

SCALE: 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas

P/N: S5GIRG5RR-AP-XNT-2

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