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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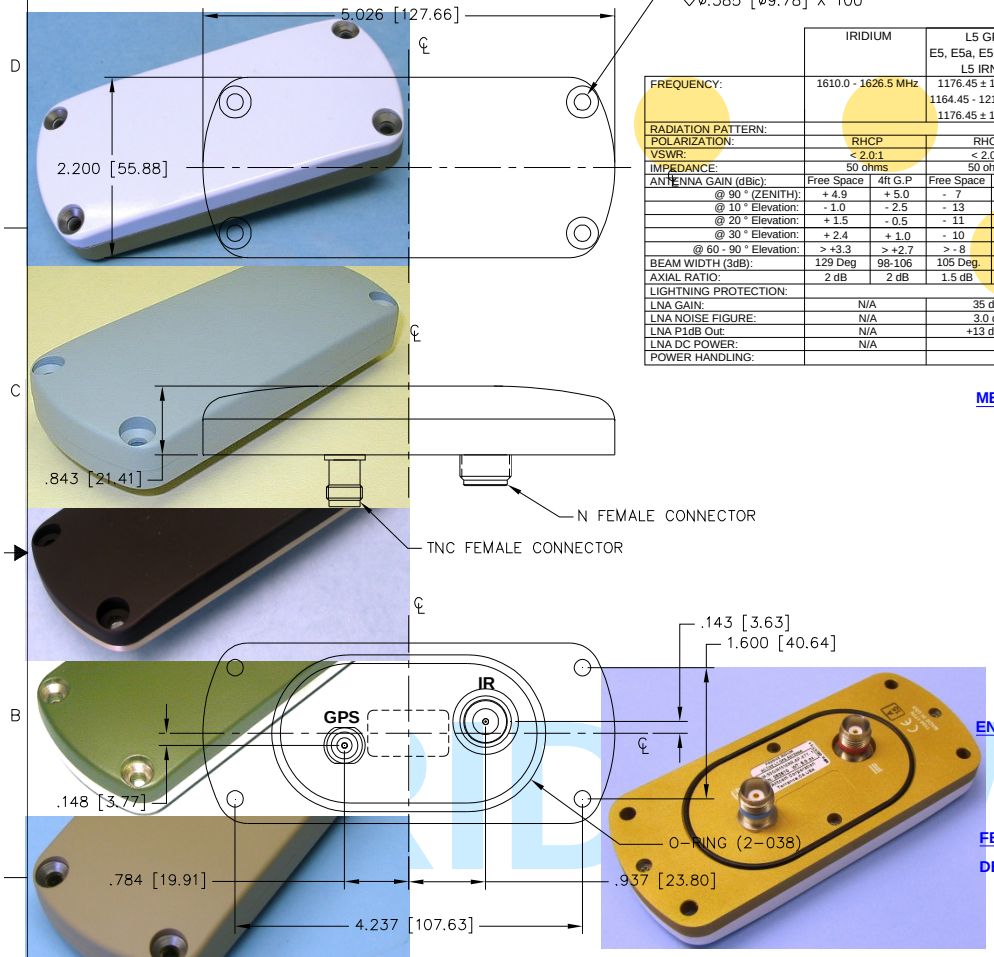

SPECIFICATIONS

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:	HEMISPHERICAL													
POLARIZATION:	RHCP		RHCP		RHCP		RHCP		RHCP		RHCP		RHCP	
VSWR:	< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1		< 2.0:1	
IMPEDANCE:	50 ohms		50 ohms		50 ohms		50 ohms		50 ohms		50 ohms		50 ohms	
ANTENNA GAIN (dBic):	Free Space	4ft G.P	Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P	Free Space	5in G.P
@ 90 ° (ZENITH):	+ 4.9	+ 5.0	- 7	- 3	+ 0.5	+ 3	- 0.8	+ 2.3	+ 1.9	+ 1.0	+ 4.1	+ 3.2	+ 2.0	+ 2.6
@ 10 ° Elevation:	- 1.0	- 2.5	- 13	- 10	- 5.6	- 4.1	- 7.1	- 5.0	- 5.0	- 5.7	- 2.8	- 3.2	- 5.1	- 4.2
@ 20 ° Elevation:	+ 1.5	- 0.5	- 11	- 9	- 3.9	- 2.7	- 5.4	- 3.3	- 3.9	- 3.9	- 1.9	- 1.6	- 4.1	- 2.6
@ 30 ° Elevation:	+ 2.4	+ 1.0	- 10	- 8	- 2.6	- 0.8	- 4.3	- 1.5	- 2.6	- 3.0	- 0.4	- 0.6	- 2.6	- 1.4
@ 60 - 90 ° Elevation:	> +3.3	> +2.7	> - 8	> - 5	> -1	> 1.8	> - 2.4	> 1.2	> + 0.8	> + 0.2	> 2.9	> + 2.5	> + 0.8	> + 1.8
BEAM WIDTH (3dB):	129 Deg	98-106	105 Deg.	100 Deg.	105 Deg.	105 Deg.	90 Deg.	105 Deg.	95 Deg.	97 Deg.	95 Deg.	100 Deg.	95 Deg.	100 Deg.
AXIAL RATIO:	2 dB	2 dB	1.5 dB	3 dB	1 dB	1 dB	1 dB	1 dB	1 dB	1 dB	1 dB	1 dB	2 dB	2 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, D0-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

ITEM NO.	QUANTITY REQD	DESCRIPTION	PART NO	MATERIAL	FINISH
	-2	-1	PARTS LIST		
5	4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-
3	1	ADHESIVE GASKET	12345G-3M-4G		
1	1	O-RING	2-038-N756-75	-	-

CONFIGURATION:	FREQ. BAND:	GPS/IRIDIUM LNA:	CABLE'S LENGTH:	GPS/IRIDIUM CONNECTOR:	COLOR:
1: 2" SQ. (FLAT)	1516: L1 GPS & IRIDIUM	A: WITH LNA	X: NO CABLE	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	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
2: 2.6" DIA. (FLAT)	GPS & IRIDIUM		#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3: 3.5" DIA. (FLAT)	G5: L1/L1 GPS & L1/L2 Glonass & Omnistar		R: RIGHT ANGLE CON.	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)					

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS ± 1/64, DECIMALS .XX± .015, .XXX± .005, ANGLES ± 1°. TOLERANCE SYM PER ANSI Y14.5. REMOVE ALL BURRS. BREAK EXTERNAL EDGES .005 TO .015. FILLETS R .005 TO R .030. SCREW THREADS PER MIL-S-8879. DIA'S ON A COMMON ℄ Ø.005. MACHINED SURFACES 125. DO NOT SCALE DRAWING.

ORIGINALLY DRAWN	S. HUYNH	DEC-13-02
ORIGINALLY DESIGNED	S. HUYNH	DEC-13-02
UPDATED	S. HUYNH	Jan-21-13
UPDATE DRAWN	P. TRAN	Jan-21-13
APPROVED	S. HUYNH	Jan-21-13

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT FIXED MOUNT ACTIVE IRIDIUM & G5 ANTENNA

SIZE	CAGE NO	DRAWING NO	REV
D	3CVE1	S5GIRG5RR-AP-XNT-2	-

SCALE 1/1 SHEET 1 OF 1

ORIGINAL DOCUMENT WHEN STAMP IS RED

NMO Connector Option is Now Available for Some Antennas