



Active L1/L2 / Passive Iridium / Wifi Antenna for DeepSea Applications

P/N: S5GIR121625RRL-APP-XDGO3-UU (for DGO Connectors)

P/N: S5GIR121625RRL-APP-XX3-UU (for Other Connectors)

Other Frequencies and Connectors are Available. *Tested and Survived at 10,000 Meters Depth*

ISO 9001:2008/FAA Approved Facility

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



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SPECIFICATIONS

		REVISIONS			
ZONE	REV	DESCRIPTION	DATE	APPROVED	

ELECTRICAL:

	GPS (L1 or L1/L2. See P/N in Bottom Table)				IRIDIUM (1610 - 1626)		WI-FI (2400-2500)	
FREQUENCY (MHz):	L1: (1575 ±13) L2: (1227 ±13)				HEMISPHERICAL		OMNIDIRECTIONAL	
RADIATION PATTERN:	HEMISPHERICAL				HEMISPHERICAL		OMNIDIRECTIONAL	
POLARIZATION:	RHCP				RHCP		VERTICAL	
VSWR:	< 2:1				< 2:1		< 2:1	
GAIN (dB):	F.S.	4 ft G.P	F.S.	4 ft G.P	F.S.	F.S.	4 ft G.P	
@ 90° (Zenith):	+ 4.6	+ 2.9	+ 1.8	+ 5.3	0.0	+3.7	+1.8	
@ 10° Elevation:	- 2.5	- 1.8	- 4.2	- 2.3	- 7.5	-3.2	-1.8	
@ 20° Elevation:	- 1.1	+ 0.7	- 2.9	+ 0.4	- 5.5	-1.6	+0.9	
@ 30° Elevation:	+ 0.5	+ 1.7	- 2.0	+ 2.3	- 4.0	-0.2	+0.2	
@ 60° to 90° Elevation:	> 3.6	> 2.1	> 0.9	> 3.2	- 2.3	+3.2	+0.6	
BEAM WIDTH (3dB):	103 °	146 °	108 °	74 °	98 °-106 °			
AXIAL RATIO @ Zenith:	2 dB				2 dB			
POWER HANDLING:	1 Watt				30 W			
LIGHTNING PROTECTION:	DC GROUNDING				DC GROUNDING			
FILTER:	2 2-POL							
LNA GAIN:	(33.0+/-1.0) dB				N/A			
LNA P 1dB Out:	+16 dBm				N/A			
LNA NOISE FIGURE:	2.9 dB (Filter loss is Included)				N/A			
VOLTAGE/CURRENT:	(+2.8 TO +28) Volts DC / (30 TO 50) mA				N/A			

MECHANICAL:

SIZE: WIDTH: 2.28 in. [58 mm], LENGTH: 5.11 in. [130 mm], HEIGHT: .900 in. [22.86 mm] FOR DGO CONNECTOR, 3.00 In. [76.07 mm] FOR OTHER CONNECTORS

WEIGHT: 2.26 lbs.. (1.03 kg)

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

COLOR: LUSTERLESS GRAY #36320 PER FED-STD-595B, GLOSS WHITE #17925 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, THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: DGO FEMALE CONNECTORS (OPTIONAL: SMA, N, BNC, TNC)

ENVIRONMENTAL:

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

ALTITUDE: 70,000 ft.

VIBRATION: 10 G's

LEAKAGE: HERMETICALLY SEAL

FEDERAL & MILITARY SPECIFICATIONS:

DO-160D, MIL-C-5541, MIL-E-5400, MIL-I-45208A, AND MIL-STD-810

CONFIGURATION:	FREQ. BAND (MHz):	LNA:	FEMALE CONNECTOR:	COLOR:
5G: (5.0x2.2)in Rect.	15: L1 (1575)	08: 824-894	A: WITH LNA	-1: GLOSS WHITE #17925 PER FED-STD-595B
	12: L1/L2 (1575 / 1227)	09: 878-960	P: WITHOUT LNA	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	G3: L1 GPS/L1 Glonass/Omnistar	18: 1710-1880	M: MCX; MM: MMCX	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
3B: BLADE	G5: L5/L1/L2 GPS/L1/L2 Glonass/Omnistar	19: 1850-1990	N: N; NB: N-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
		16: 1610 - 1626	T: TNC; TB: TNC-Bulkhead	-5: TAN # FS 23446 or 33446, FED-STD-595
		23: 2200 - 2400	B: BNC Female	
	25: 2400 - 2500	DGO: DGO		
			UU: Teflon Coating	

QUANTITY REQD	DESCRIPTION	PARTS LIST	PART NO	MATERIAL	REV
4	10-32 SCREW, 3.5" L (Item 584-3.5)		91781A844	-	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES DECIMALS ARE TO 0.005 ANGLES TO 1°		ANTCOM CORP. TORRANCE CALIFORNIA L1/L2 / Iridium / Wifi ANTENNA
TOLERANCE 5M PER ANSI Y14.5	DATE: APR 26-10	
RELIEVE ALL SHARP EDGES TO 0.015	DATE: APR 26-10	
PERFORM ALL DIMENSIONS TO 0.015 UNLESS OTHERWISE SPECIFIED	DATE: FEB 18-14	
DO NOT SCALE DRAWING	DATE: FEB 18-14	Dwg No: 3CVE1 Part No: S5GIR121625RRL-APP-XDGO3-UU Scale: 1/1 Sheet: 1 of 1

NMO Connector Option is Now Available for Some Antennas