



Active L1L2 / Passive Iridium / Wifi Antenna for DeepSea Applications

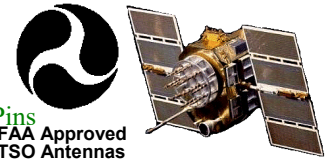
P/N: S5GIR121625RRL-APP-XDGO3-UU (for DGO Connectors)

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

Other Frequencies and Connectors are Available. Tested and Survived at 10,000 Meters Depth. With Isolated RF-Grounds/Pins

ISO 9001:2008/FAA Approved Facility

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



ANTCOM CORPORATION . 367 Van Ness Way, Suite 602 . Torrance, CA 90501 . Tel: (310) 782-1076 . Fax: (310) 782-1086 . E-mail: antennas@antcom.com . <http://www.antcom.com>

NOTICE OF PROPRIETARY RIGHTS
THIS DOCUMENT CONTAINS CONFIDENTIAL, TECHNICAL DATA INCLUDING TRADE SECRETS PROPRIETARY TO ANTCOM CORP. DISCLOSURE OF THIS DATA TO ANY OTHER PARTY WITHOUT THE WRITTEN CONSENT OF ANTCOM CORP. IS STRICTLY PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF ANTCOM CORP.

SPECIFICATIONS

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.	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		2 dB	
POWER HANDLING:	1 Watt		30 W		30 W	
LIGHTNING PROTECTION:	DC GROUNDING		DC GROUNDING		DC GROUNDING	
FILTER:	2 2-POL					
LNA GAIN:	(33.0±/-1.0) dB		N/A		N/A	
LNA P 1dB Out:	+16 dBm		N/A		N/A	
LNA NOISE FIGURE:	2.9 dB (Filter loss is Included)		N/A		N/A	
VOLTAGE/CURRENT:	(±2.8 TO ±28) Volts DC / (30 TO 50) mA		N/A		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 HEIGHT: 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

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

CONFIGURATION:	FREQ. BAND (MHz):	LNA:	FEMALE CONNECTOR:	COLOR:
5G: (5.0x2.2)in Rect.	15: L1 (1575) 12: L1/L2 (1575 / 1227) G3: L1 GPS/L1 Glonass/ OmniStar 3B: BLADE G5: L1/L1/L2 GPS/ L1L2 Glonass/OmniStar	08: B24-894 09: B78-960 18: 1710-1880 19: 1850-1990 16: 1610 - 1626 23: 2200 - 2400 25: 2400 - 2500	A: WITH LNA P: WITHOUT LNA M: MCX; MM; MMCX N: N; NB; N-Bulkhead T: TNC; TB; TNC- Bulkhead B: BNC Female DGO; DGO	-1: GLOSS WHITE #17925 PER FED-STD-595B -2: LUSTERLESS GRAY #36320 PER FED-STD-595B -3: OLIVE DRAB GREEN #34031 PER FED-STD-595B -4: LUSTERLESS BLACK #37038 PER FED-STD-595B -5: TAN # FS 23446 or 33446, FED-STD-595 UU: Teflon Coating

P/N: S5GIR121625RRL-APP-XDGO3-UU

NMO Connector Option is Now Available for Some Antennas