



FAA Approved Facility

**Active L1L2 / Passive Iridium / GSM / Wi-Fi Antenna**  
**P/N: 5G12160925RRL-AP3-XCRA2154-UU**  
 for Deep Sea 10,000m Applications. With Isolated RF-Grounds/Pins  
 Other Frequencies and Connectors are Available

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



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**SPECIFICATIONS**

ZONE	REVISIONS				
	REV	DESCRIPTION	DATE	APPROVED	

**ELECTRICAL:**

	L1 GPS (1575 ± 17)	L2 GPS (1227 ± 15)	IRIDIUM (1610 - 1626)	GSM (810-960)	Wi-Fi (2400-2500)
FREQUENCY (MHz):					
RADIATION PATTERN:	HEMISPHERICAL				OMNIDIRECTIONAL
POLARIZATION:	RHCP	RHCP	RHCP	VERTICAL	
VSWR:	< 2:1	< 2:1	< 2:1	2.0:1	
IMPEDANCE:	50 ohms	50 ohms	50 ohms	50 ohms	
ANTENNA GAIN:				> 1 dB	
@ 90 ° (ZENITH):	+ 4.7	+ 3.3	+ 1.1		
@ 10 ° Elevation:	- 1.8	- 3.8	- 0.8		
@ 20 ° Elevation:	- 0.3	- 2.0	+ 1.2		
@ 30 ° Elevation:	+ 1.4	- 0.5	+ 1.1		
@ 60 - 90 ° Elevation:	> 3.9	> 2.7	+ 0.0		
BEAM WIDTH (3dB):	114 Deg.	106 Deg.	162 Deg.		
LNA GAIN:	33 dB	35 dB			
LNA NOISE FIGURE:	3.0 dB	3.0 dB			
LNA P1dB Out:	+13 dBm	+13 dBm			
LNA DC POWER:	2.5V/20mA, 3V/29mA, 3.3V/35mA, (2.5-24)V/≤50mA				
REJECTION @ (-50/+50) MHz	-41 dB / -59 dB		-40 dB / -40 dB		
@ (-100/+100) MHz	< -65 dB		< -65 dB		
POWER HANDLING:	1 Watt CW, 2000 Peak 1 Microsec Pulse (-AL-)				

**MECHANICAL:**

SIZE: WIDTH: 2.28 in. [58 mm], LENGTH: 5.11 in. [130 mm], HEIGHT: 6.315 in. [160.40 mm]

WEIGHT: 2.9 lbs.. (1.32 kg)

FINISH: GRAY TEFLON COATING

MATERIAL: 6061-T6 ALUMINUM ALLOY BASE  
 THERMOSET PLASTIC RADOME, UV, ABRASION AND SKYDROL RESISTANCE

CONNECTOR: AMETEK CR2154 CONNECTOR  
 (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

QTY	DESCRIPTION	PART NO	MATERIAL	TEST NO
4	10-32 SCREW, 3.5" L (Item 584-3.5)	91781A844	-	2
				1

**CONFIGURATION:**

CONFIGURATION:	FREQ. BAND (MHz):	POLARIZATION:	LNA:	FEMALE CONNECTOR:	COLOR:
5G: (5.0x2.2)in Rect.	15: L1 (1575)	R: RHCP	A: WITH LNA	S: SMA	-1: GLOSS WHITE #17925 PER FED-STD-595B
3B: BLADE	12: L1/L2 (1575 / 1227)	L: LHCP	P: WITHOUT LNA	T: TNC; TB: TNC-Bulkhead	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
5B: BLADE	Q4: 824-1990	V: VERTICAL		N: N; NB: N-Bulkhead	-3: OLIVE DRAB GREEN #34031 PER FED-STD-595B
	09: (810-960)	H: HORIZONTAL		B: BNC Female	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
	16: (1610 - 1626)			CRA2154; AMETEK CRA2154	-5: TAN #; FS 23446 or 33446, FED-STD-595
	25: (2400-2500)				UU: Teflon Coated for Under Water Application

**ANTCOM CORP. TORRANCE, CALIFORNIA**

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DO NOT SCALE DRAWING

SCALE 1/1

SHEET 1 OF 1