



FAA Approved Facility

Active L1 GPS/IRIDIUM/WI-FI Antenna, P/N: 5G151624RRL-A2P-XTTT-X (20dB, TNC Connectors)
 Active L1/L2 GPS/IRIDIUM/WI-FI Antenna, P/N: S5GIR121625RRL-APP-XSSX-X (33dB, SMA Connectors)
 Active L1/L2 GPS/IRIDIUM/WI-FI Antenna, P/N: S5GIR121625RRL-APP-XSSX-UU
 (33dB, SMA, "-UU" (Gray) for Under Water Applications (10,000meter))



FAA Approved TSO Antennas

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

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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED

ELECTRICAL:

	L1 GPS/L-Band	IRIDIUM	WIFI
FREQUENCY:	(1575.42 ±12) MHz,	(1610.0 - 1626.5) MHz	(2400-2500) MHz
RADIATION PATTERN:	(1555.00 ±17) MHz	HEMISPHERICAL	VERTICAL
POLARIZATION:	RHCP	RHCP	LHCP
VSWR:	< 1.5:1	< 1.5:1	< 2:1
GAIN (dB):	F.S	4 ft G.P.	F.S
@ 90° (Zenith):	+ 4.6	+ 2.9	+4.9
@ 10° Elevation (Ave):	- 2.5	- 1.8	-2.4
@ 20° Elevation (Ave):	- 1.1	+ 0.7	-0.8
@ 30° Elevation (Ave):	+ 0.5	+ 1.7	+0.8
@ 45° Elevation (Ave):	> 3.6	> 2.1	+2.8
@ 70° Elevation (Ave):	> 3.6	> 2.1	+4.6
AXIAL RATIO @ Zenith:	2 dB	2 dB	
POWER HANDLING:	1 Watt		
DC GROUNDING:	YES (LIGHTNING PROTECTION)		
FILTER (REJ. @1616 MHz):			
REJECTION @ (-50/+50) MHz:	-45 dB / -40 dB		
@ (-100/+100) MHz:	< -65 dB		
LNA GAIN:	22 dB (P1dBout = +13 dBm)		
LNA NOISE FIGURE:	2.2 dB		
LNA VOLTAGE:	(+2.5 to +24) Volts DC FROM Rx RF CON.		
LNA DRAWING CURRENT:	< 30 mA		

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-F (Blue), IRIDIUM: TNC-F (Red), WIFI: TNC-F (Green) (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:

FAA TSO-C144, DO-160D, DO-228, MIL-C-5541, MIL-E-5400, MIL-I-45208A, MIL-STD-810, AND SAE J1455

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DESIGN

QTY	DESCRIPTION	PART NO	MATERIAL	FINISH	UNIT
4	MOUNTING SCREW: (10-32, 1")	MS24693C276	-	-	5
1	O-RING	2-038-N756-75	-	-	3

CONFIGURATION

1:	2:	3:	4:	5:	6:	7:
2" SQ. (FLAT)	1516: GPS/IRIDIUM	L: W/IF	A2: WITH LNA	A: 33dB	X: NO CABLE	S: SMA; P: PINS
1.9" 1.9" SQ. (FLAT)	1516: GPS/IRIDIUM	L: W/IF	M: WITH MAG. MOUNT	M: MCX; P: MMCX	M: WITH MAG. MOUNT	M: MCX; P: MMCX
2" 2.6" DIA. (FLAT)	1516: GPS/IRIDIUM/L-Band	L: W/IF	N: N; NB: N-Bulkhead	T: TNC; TB: TNC- Bulkhead	N: N; NB: N-Bulkhead	T: TNC; TB: TNC- Bulkhead
3" 3.5" DIA. (FLAT)	1516: GPS/IRIDIUM/WI-FI	L: W/IF	P: WITHOUT LNA	R: RIGHT ANGLE CON.	R: RIGHT ANGLE CON.	T: TNC; TB: TNC- Bulkhead
4" MINI ARINC (FLAT)						
5G: (5.0x2.2)in Rect.						
5B: (HELIX BLADE)						
5D: (HELIX HANDHELD)						

CABLE'S LENGTH:

X: NO CABLE
 M: WITH MAG. MOUNT
 R: RIGHT ANGLE CON.

GPS/XM LNA:

R: GPS/IRIDIUM
 L: W/IF
 A2: WITH LNA
 A: 33dB

GPS/IRIDIUM/XM CON:

S: SMA; P: PINS
 M: MCX; P: MMCX
 N: N; NB: N-Bulkhead
 T: TNC; TB: TNC- Bulkhead

COLOR:

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

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

P/N: 5G151624RRL-A2P-XTTT-1

NMO Connector is Now Available for Some Antennas