



ISO 9001:2008/FAA Approved Facility

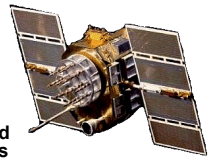
Antenna Mounts: <http://www.antcom.com/documents/catalogs/PeripheralAntennaProducts2.pdf>

Active L1 GPS + Dual Iridium Antenna

P/N: 5G151616RRR-APP-XBTT-1 Rev A (GPS (BNC) / Dual Iridium (TNC))
 (5.0"x2.2"x0.72"), Flat, Top Mount, Bottom Connector Configuration
 L1 L2 and Other Frequencies Available



FAA Approved
TSO Antennas



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4X.800 [20.32]
4x2.119 [53.82]
4xØ.201 [Ø5.11]
∠ 0.385 [Ø9.78] X 100°
for 10-32 MOUNTING SCREWS

0.57" [14.53](TNC), 0.72" [18.29](N,N-Bulkhead)
0.357" [9.07](SMA), 0.83" [21.00](TNC-Bulkhead), 0.200" [5.08](MCX)

0.784 [19.91]
.148 [3.77]
.937 [23.80]
.143 [3.63]
O-RING (2-038)

IRIDIUM TNC Female
GPS BNC Female
IRIDIUM: TNC Female

SPECIFICATIONS

ELECTRICAL:

	GPS (L1 or L1/L2, See P/N in Bottom Table)				IRIDIUM		GSM
FREQUENCY:	L1: (1575.4 ±13)		L2: (1227.6 ±13) MHz		(1610.0 - 1626.5) MHz		(See Bottom Table)
RADIATION PATTERN:	HEMISPHERICAL		HEMISPHERICAL		HEMISPHERICAL		Verticle / Horizontal
POLARIZATION:	RHCP		RHCP		RHCP		OMNI
VSWR:	< 1.5:1		< 1.5:1		< 1.5:1		< 2:1
GAIN (dB):	F.S.	4 ft G.P	F.S.	4 ft G.P	4 ft G.P.	F.S.	
@ 90° (Zenith):	+4.6	+2.9	+1.8	+5.3	+4.9	+5.0	
@ 10° Elevation:	-2.5	-1.8	-4.2	-2.3	-1.0	-2.5	
@ 20° Elevation:	-1.1	+0.7	-2.9	+0.4	+1.5	-0.5	
@ 30° Elevation:	+0.5	+1.7	-2.0	+2.3	+2.4	+1.0	
@ 60° to 90° Elevation:	> 3.6	> 2.1	> 0.9	> 3.2	>+3.3	>+2.7	
BEAM WIDTH (3dB):	103 °	146 °	108 °	74 °	129 °	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		2 2-POL		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 +2.8) Volts DC / (30 TO 50) mA		N/A		N/A		

MECHANICAL:

SIZE: WIDTH: 2.20 in. [55.88 mm], LENGTH: 5.026 in [127.66 mm]
 HEIGHT: 0.913 in. [23.19 mm]

WEIGHT: < 12 oz. (340 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: BNC FEMALE, IRIDIUM: TNC FEMALE
 (OPTION: SMA, TNC, TNC Bulkhead, N, N Bulkhead,
 BNC, 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

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

CONFIGURATION:	FREQ. BAND:	CABLE'S LENGTH:	GSM/GPS/IRIDIUM CON.:	COLOR:
5G: (5.0x2.2)in Rect.	08: CELLULAR (824-894) MHz (US/Canada)	X: NO CABLE	S: SMA; P: PINS	+1: GLOSS WHITE #17925 PER FED-STD-595B
	09: GSM (876-960) MHz (Europe/Asia/Africa/M-East)	M: WITH MAG. MOUNT	M: MCX; MM: MMCX	-2: LUSTERLESS GRAY #36320 PER FED-STD-595B
	18: DCS (1710-1880) MHz (Europe/Asia/Africa/M-East)	#: CABLE LENGTH (IN)	N: N; NB: N-Bulkhead	-3: CAMO GREEN #34094 PER FED-STD-595B
	19: PCS (1850-1990) MHz (US/Canada)	R: RIGHT ANGLE CON.	T: TNC; TB: TNC-Bulkhead	-4: LUSTERLESS BLACK #37038 PER FED-STD-595B
3B: BLADE	Q4: QUAD BAND (A 4 bands above)		B: BNC Female	-5: TAN #: FS 23448 or 33446, FED-STD-595
	12: L1/L2 GPS (1575±12) / (1227±12) MHz			
	15: L1 GPS (1575±12) MHz			
	16: IRIDIUM (1610.0 - 1626.5) MHz			

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

ANTCOM CORP. TORRANCE CALIFORNIA

FLAT FIXED MOUNT
GSM/GPS/IRIDIUM
ANTENNA

SCALE 1/1

SHEET 1 OF 1

NMO Connector Option is Now Available for Some Antennas